List Of Contents For 031-T-01

EGPC

PETROJET بتروجت

Enppi

	PTJ	ENPPI	PMC
Name	Ebrahim Mousa		
Sign.	[signature]		[signature]
Date			

1. PUNCH LIST

PETROJET Enppi **PUNCH LIST** EGPC

PROJECT TITLE : CRUDE OIL TANK FARM PROJECT (AGROOD AREA)

PROJECT NUMBER : 01251-100	**DISCIPLINE:MECHANICAL**
Tank No.: 031-T-001	**Date:-23/06/2021**
	Page 1 of 1

NO	DESCRIPTION	CAT	ACTION BY	DISP	CLEARANCE APPROVED BY
1	banding for horizontal joints between (C06RWT262-C06T262) out of tolerence (see attached shell weld map)	A		[signature]	[signature]
2	banding for horizontal joints between (C05RWT202-C06RWT203) out of tolerence(see attached shell weld map)	A		[signature]	[signature]
3	shell plate temporary attachements to be removed and PT required from inside and outside	B			
4	weld visual and leak test to be done for lower deck replacement plates and outer rim(see attached floating roof weld map)	A		[signature]	[signature]
5	open gap for lower deck plates shall be welded from underside	A		[signature]	[signature]
6	roof nozzel no.(N07) to be welded	A		[signature]	[signature]
7	Hydrotest to be done for drain piping system	A		[signature]	[signature]
8	weld visual and MT to be done for upper deck replacement plates (see attached floating roof weld map)	B			
9	vortex breaker to be installed and welded	B			
10	new pontoon manholes to be installed &welded	B			
11	Roof Drain check valves to be installed	B			
12	Roof Drain accessories to be installed	B			
13	Emergency Drain accessories to be installed	B			
14	Rim vent accessories to be installed	B			
15	Cover vent for Deck manholes to be installed	B			
16	Painting for upper deck plates required	B			
17	Foam dam to be installed & welded	B			
18	Earthing system between floating roof,rolling ladder & shell plate to be done	B			
19	Primary seal to be installed	B			
20	Secondary seal to be installed	B			
21	Foam ring & chamber to be installed & welded	B			
22	Riser for cooling ring & foam ring to be installed	B			
23	Level transmitter & temperature transmitter to be installed & welded	B			

COMPANY	PTJ	ENPPI	PMC
NAME	M. abd allah	Mohamed Abbas	
SIGN.	[signature]	[signature]	[signature]
DATE	23/06/2021		

2. RELEASE FOR HYDROTEST

Release for Hydrotest

EGPC | PETROJET | Enppi

Report No;: 1

Date :

CLIENT	EGPC	TANK NO;:	031-T-01
PROJECT NAME	CRUDE OIL TANKS FARM PROJECTS		
APPLICABLE CODE OR SPECIFICATION	API 650	SERVICE	CRUDE OIL TANK

We Hereby accept to release the Tank No;(031-T-01) for Hydrotest, where the following activities had been completed:-

1- Civil works and associated tests.

2- Mechanical works and associated test.

3- None destructive tests.

In addition all the quality documents,reports for mechanical works and non destructive tests have been reviewed by PETROJET , ENPPI & PMC REP;

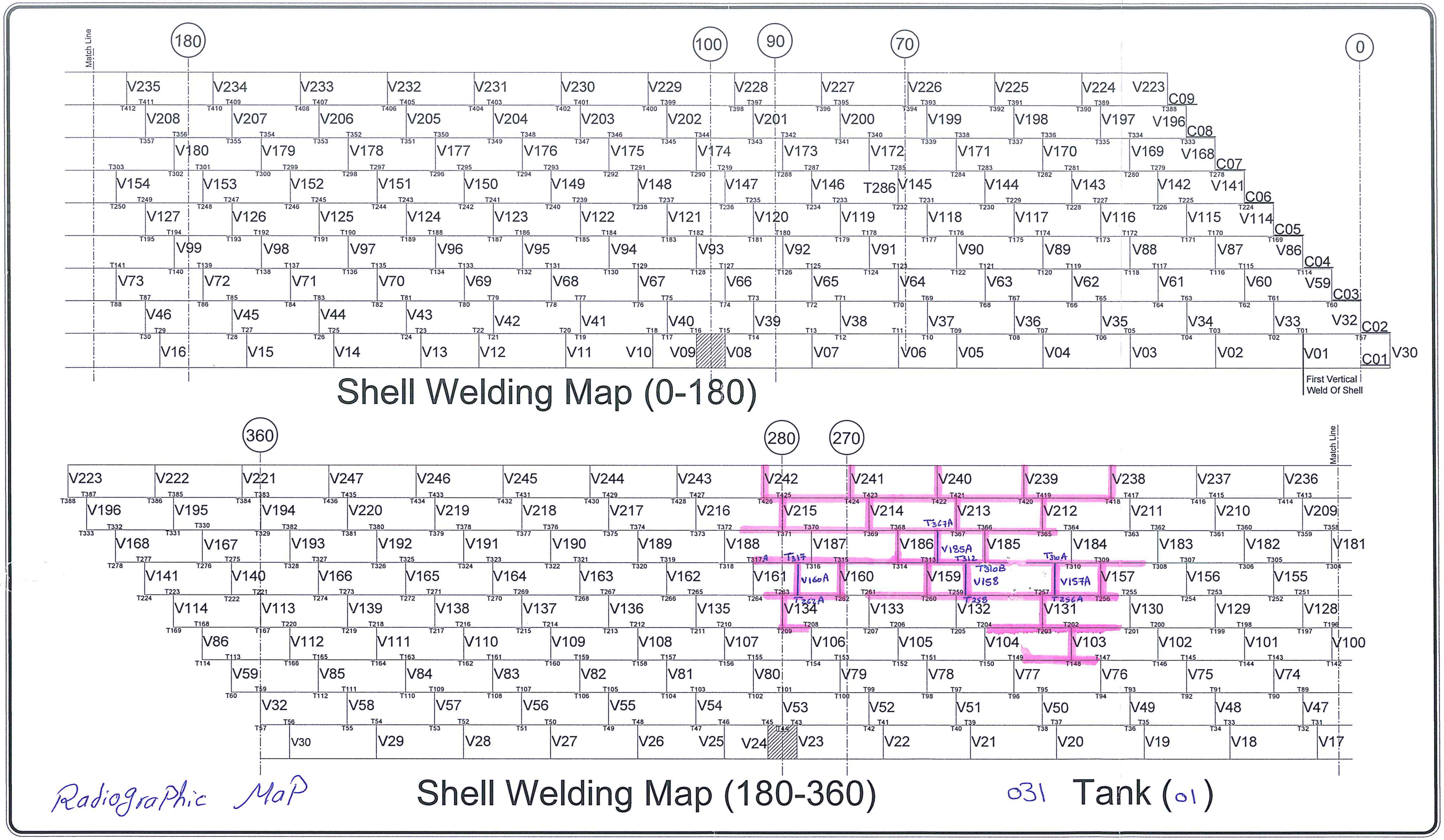
	PTJ	ENPPI	PMC
Name	M. Abdallah	Mohamed Abbas	
Sign.			
Date	28/06/2021		

3. SETTLEMENT REPORT

4. RELEASE FOR ERECTION

5. INSPECTION AND TEST PLAN

6. RADIOGRAPHIC MAP


Shell Welding Map (0-180)
First Vertical Weld Of Shell
Match Line
Shell Welding Map (180-360)
Radiographic Map
031 Tank (01)

7. QC SUMMARY SHEET

Enppi

SUMMARY CONTROL SHEET FOR (031-TK-01)

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	Visual Inspection: VIS No	Date	REP No.	Date
908	031-T-01	ROOF REPAIR	LOWER DECK	RWL382	5	1251-100-116-02-XX-D99-004	312	16-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC01	FC01							392	22-05-2021		
916	031-T-01	ROOF REPAIR	LOWER DECK	RWL389	5	1251-100-116-02-XX-D99-004	H	H	SA283Grc	H	H	SA283Grc	H	H	FCAW	FC01	FC01							392	22-05-2021		
921	031-T-01	ROOF REPAIR	LOWER DECK	RWL393	5	1251-100-116-02-XX-D99-004	312	16-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC01	FC01							392	22-05-2021		
928	031-T-01	ROOF REPAIR	LOWER DECK	RWL399	5	1251-100-116-02-XX-D99-004	H	H	SA283Grc	H	H	SA283Grc	H	H	FCAW	FC01	FC01							392	22-05-2021		
932	031-T-01	ROOF REPAIR	LOWER DECK	RWL402	5	1251-100-116-02-XX-D99-004	312	16-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC01	FC01							392	22-05-2021		
939	031-T-01	ROOF REPAIR	LOWER DECK	RWL408	5	1251-100-116-02-XX-D99-004	H	H	SA283Grc	H	H	SA283Grc	H	H	FCAW	F01	FC01							392	22-05-2021		
944	031-T-01	ROOF REPAIR	LOWER DECK	RWL412	5	1251-100-116-02-XX-D99-004	312	16-06-21	SA283Grc	513457	53703	SA283Grc	513561	53703	FCAW	FC01	FC01							392	22-05-2021		
2585	031-T-01	SHELL REPAIR	Shell	RWV157	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	1910085	14163	A 537 CL1	1910088	14163	SMAW	SM33	SM103							424	05-06-2021		
2587	031-T-01	SHELL REPAIR	Shell	RW V158	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	291002622	14163	A 537 CL1	1910085	14163	SMAW	SM15	SM103							393	25-05-2021		
2590	031-T-01	SHELL REPAIR	Shell	RWV160	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	1910085	14163	A 537 CL1	1910085	14163	SMAW	SM33	SM103							424	05-06-2021		
2617	031-T-01	SHELL REPAIR	Shell	RW V186	12.4	1251-100-116-02-XX-D01-017	285	26-05-21	A283GRC	57040	2991	A283GRC	57040	2991	SMAW	SM15	SM103							393	25-05-2021		
2644	031-T-01	SHELL REPAIR	Shell	RWV212	11.1	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	28866	1208524	SA283Grc	28866	1208524	SMAW	SM15	SM103							393	25-05-2021		
2646	031-T-01	SHELL REPAIR	Shell	RWV213	11.1	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	28866	1208524	SA283Grc	28866	1208524	SMAW	SM15	SM103							393	25-05-2021		
2648	031-T-01	SHELL REPAIR	Shell	RWV214	11.1	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	28866	1208524	SA283Grc	28866	1208524	SMAW	SM15	SM103							393	25-05-2021		
2650	031-T-01	SHELL REPAIR	Shell	RWV215	11.1	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	28866	1208524	SA283Grc	28866	1208524	SMAW	SM33	SM18							393	25-05-2021		
2674	031-T-01	SHELL REPAIR	Shell	RWV238	10	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	SMAW	SM33	SM18							393	25-05-2021		
2676	031-T-01	SHELL REPAIR	Shell	RWV239	10	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	SMAW	SM33	SM18							393	25-05-2021		
2678	031-T-01	SHELL REPAIR	Shell	RWV240	10	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	SMAW	SM33	SM18							393	25-05-2021		
2680	031-T-01	SHELL REPAIR	Shell	RWV241	10	1251-100-116-02-XX-D01-017	285	26-05-21	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	SMAW	SM33	SM18							393	25-05-2021		
2682	031-T-01	SHELL REPAIR	Shell	RWV242	10	1251-100-116-02-XX-D01-017	312	16-06-21	SA283Grc	71783401	20200306	SA283Grc	7162503	20200306	SMAW	SM33	SM18							393	25-05-2021		
3028	031-T-01	SHELL REPAIR	Shell	C04 RW T148	26.4	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3029	031-T-01	SHELL REPAIR	Shell	C04 RW T148	26.4	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3102	031-T-01	SHELL REPAIR	Shell	C04 RW T147-T148	26.4	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3104	031-T-01	SHELL REPAIR	Shell	C04 RW T148-T149	26.4	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3205	031-T-01	SHELL REPAIR	Shell	C05 RW T208	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3206	031-T-01	SHELL REPAIR	Shell	C05 RW T208	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM103	SM33							393	25-05-2021		
3267	031-T-01	SHELL REPAIR	Shell	RW C05 T201-T202	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM33	SM18							424	05-06-2021		
3269	031-T-01	SHELL REPAIR	Shell	C05 RW T202-T203	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM33	SM18							393	25-05-2021		
3271	031-T-01	SHELL REPAIR	Shell	C05 RW T203-T204	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM33	SM18							393	25-05-2021		
3277	031-T-01	SHELL REPAIR	Shell	C05 T208-T209	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM15	SM15							424	05-06-2021		
3358	031-T-01	SHELL REPAIR	Shell	C06 RW T256	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM18							424	05-06-2021		
3359	031-T-01	SHELL REPAIR	Shell	C06 RW T256	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM18							424	05-06-2021		
3364	031-T-01	SHELL REPAIR	Shell	C06 RW T258	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021		
3365	031-T-01	SHELL REPAIR	Shell	C06 RW T258	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021		

Sr. No	RT Report: SHOOT NO	ACC.	REJ.	R/S	Defect location	Date	UT: Report No.	Date	MT Inside: Report No.	Date	MT Outside: Report No.	Date	PT Inside: Report No.	Date	PT Outside: Report No.	Date	Vacuum Test Root: Report No.	Date	Vacuum Test Cap: Report No.	Date	Leak Test: Report No.	Date	Peaking Before: Report No.	Date	Peaking After: Report No.	Date	Banding Before: Report No.	Date	Banding After: Report No.	Date	Plumbness Before: Report No.	Date	Plumbness After: Report No.	Date	Roundness: Report No.	Date
908																																				
916																																				
921																																				
928																																				
932																																				
939																																				
944																																				
2585	1	PAUT-204P				24-06-2021																			11	24-06-21										
2587	1	PAUT-203P				23-06-2021																			11	24-06-21										
2590	1	PAUT-200P				21-06-2021																			11	24-06-21										
2617	1	PAUT-194P				12-06-2021																			12	24-06-21										
2644	1	PAUT-192				29-05-2021																			13	24-06-21										
2646	1	PAUT-192				29-05-2021																			13	24-06-21										
2648	1	PAUT-196P				14-06-2021																			13	24-06-21										
2650	1	PAUT-192				29-05-2021																			13	24-06-21										
2674	1	PAUT-194P				12-06-2021																			16	24-06-21										
2676	1	PAUT-194P				12-06-2021																			16	24-06-21										
2678	1	PAUT-198	PAUT-194P			15-06-2021																			16	24-06-21										
2680	1	PAUT-200P				21-06-2021																			16	24-06-21										
2682	1	PAUT-194P				12-06-2021																			16	24-06-21										
3028	1	80				10-06-2021																														
3029	2	80				10-06-2021																														
3102	1	PAUT-193P				07-06-2021																							5	23-06-2021						
3104	1	PAUT-193P				07-06-2021																							5	23-06-2021						
3205	1	80				10-06-2021																														
3206	2	80				10-06-2021																														
3267	1	PAUT-204	PAUT-193P			24-06-2021																							8	23-06-2021						
3269	1	PAUT-193P				07-06-2021																							8	23-06-2021						
3271	1	PAUT-193P				07-06-2021																							8	23-06-2021						
3277	1	PAUT-193P				07-06-2021																							9	23-06-2021						
3358	1	83				22-06-2021																														
3359	2	83				22-06-2021																														
3364	1	83				22-06-2021																														
3365	2	83				22-06-2021																														

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report		A			B			Welding Process	Welder No.		REP. BY	Consumable			Heat Treatment		VISUAL INSPECTION				RT Report					
							Report No	Date	Classification	Heat No.	Certificate No.	Classification	Heat No.	Certificate No.		1	2		Class	Batch No.	Size	Report No	Date	VIS No	Date	REP No.	Date	SHOOT NO	ACC	REJ.	R/S	Defect location	Date
3375	031-T-01	SHELL REPAIR	Shell	C06 RW T262	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021			1	83				22-06-2021
3376	031-T-01	SHELL REPAIR	Shell	C06 RW T262	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021			2	83				22-06-2021
3377	031-T-01	SHELL REPAIR	Shell	C06 T262A	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	80				10-06-2021
3378	031-T-01	SHELL REPAIR	Shell	C06 T262A	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			2	81	80			20-06-2021
3381	031-T-01	SHELL REPAIR	Shell	C06 RWT263	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	80				10-06-2021
3382	031-T-01	SHELL REPAIR	Shell	C06 RWT263	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			2	80				10-06-2021
3442	031-T-01	SHELL REPAIR	Shell	C06 RW T255-T256	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	PAUT-198P				15-06-2021
3443	031-T-01	SHELL REPAIR	Shell	C06 RW T256-T256A	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			2	PAUT-198P				15-06-2021
3444	031-T-01	SHELL REPAIR	Shell	C06 RW T256A-T257	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			3	PAUT-198P				15-06-2021
3447	031-T-01	SHELL REPAIR	Shell	C06 RW T257-T258	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	PAUT-198P				15-06-2021
3449	031-T-01	SHELL REPAIR	Shell	C06 RW T258-T259	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	PAUT-201P				22-06-2021
3451	031-T-01	SHELL REPAIR	Shell	C06 RW T259-T260	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	PAUT-201P				22-06-2021
3453	031-T-01	SHELL REPAIR	Shell	C06 RW T260-T261	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							394	26-05-2021			1	PAUT-201P				22-06-2021
3455	031-T-01	SHELL REPAIR	Shell	C06 RW T262-T262A	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM18							424	05-06-2021			1	PAUT-193P				07-06-2021
3456	031-T-01	SHELL REPAIR	Shell	C06 RW T262A-T263	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM18							424	05-06-2021			1	PAUT-193P				07-06-2021
3459	031-T-01	SHELL REPAIR	Shell	C06 RW T263-T264	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM218	SM218							394	26-05-2021			1	PAUT-193P				07-06-2021
3539	031-T-01	SHELL REPAIR	Shell	C07 RW T309	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM103							394	26-05-2021			1	79				02-06-2021
3541	031-T-01	SHELL REPAIR	Shell	C07 RW T310	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021			1	84				23-06-2021
3542	031-T-01	SHELL REPAIR	Shell	C07 RW T310	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM15							424	05-06-2021			2	84				23-06-2021
3543	031-T-01	SHELL REPAIR	Shell	C07 T310A	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM218							394	26-05-2021			1	81				20-06-2021
3544	031-T-01	SHELL REPAIR	Shell	C07 T310A	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM218							394	26-05-2021			2	81				20-06-2021
3545	031-T-01	SHELL REPAIR	Shell	C07 RW T309	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM103							394	26-05-2021			2	79				02-06-2021
3546	031-T-01	SHELL REPAIR	Shell	C07 T310B	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM218							394	26-05-2021			1	79				02-06-2021
3550	031-T-01	SHELL REPAIR	Shell	C07 T310B	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM218							394	26-05-2021			2	79				02-06-2021
3551	031-T-01	SHELL REPAIR	Shell	C07 RWT311	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM128	SM54							394	26-05-2021			1	79				02-06-2021
3554	031-T-01	SHELL REPAIR	Shell	C07 RWT311	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							394	26-05-2021			2	79				02-06-2021
3555	031-T-01	SHELL REPAIR	Shell	C07 RW T312	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			1	79				02-06-2021
3558	031-T-01	SHELL REPAIR	Shell	C07 RW T312	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			2	79				02-06-2021
3559	031-T-01	SHELL REPAIR	Shell	C07 RW T313	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			1	79				02-06-2021
3562	031-T-01	SHELL REPAIR	Shell	C07 RWT314	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM103	SM33							424	05-06-2021			1	82				21-06-2021
3563	031-T-01	SHELL REPAIR	Shell	C07 RWT314	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM103	SM33							424	05-06-2021			2	82				21-06-2021
3566	031-T-01	SHELL REPAIR	Shell	C07 RW T315	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			1	80				10-06-2021
3567	031-T-01	SHELL REPAIR	Shell	C07 RW T315	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			2	80				10-06-2021
3570	031-T-01	SHELL REPAIR	Shell	C07RW T313	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM54							395	27-05-2021			2	79				02-06-2021
3571	031-T-01	SHELL REPAIR	Shell	C07RW T316	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM218	SM54							395	27-05-2021			1	79				02-06-2021

Sr. No	UT		MT				PT				Vacuum Test				Leak Test		Peaking				Banding				Plumbness				Roundness	
			Inside		Outside		Inside		Outside		Root		Cap				Before		After		Before		After		Before		After			
	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date
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3442																							11	23-06-2021						
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3449																							12	23-06-2021						
3451																							12	23-06-2021						
3453																							12	23-06-2021						
3455																							24	24-06-2021						
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class.	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date	RT Report – SHOOT NO	RT Report – ACC.	RT Report – REJ.	RT Report – R/S	RT Report – Defect location	RT Report – Date
3574	031-T-01	SHELL REPAIR	Shell	C07RW T316	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM103							395	27-05-2021			2	79				02-06-2021
3575	031-T-01	SHELL REPAIR	Shell	C07RW T317	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM103							395	27-05-2021			1	79				02-06-2021
3635	031-T-01	SHELL REPAIR	Shell	C07 RW T308-T309	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM103							395	27-05-2021			1	PAUT-195P				14-06-2021
3637	031-T-01	SHELL REPAIR	Shell	C07 RW T309-T310	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM103							395	27-05-2021			1	PAUT-1991	PAUT-195P			20-06-2021
3639	031-T-01	SHELL REPAIR	Shell	C07 RW T310-T310A	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM115	SM103							395	27-05-2021			1	PAUT-195P				14-06-2021
3640	031-T-01	SHELL REPAIR	Shell	C07 RW T310A-T310B	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM103							395	27-05-2021			1	PAUT-195P				14-06-2021
3641	031-T-01	SHELL REPAIR	Shell	C07 RW T310B-T311	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM103							395	27-05-2021			1	PAUT-195P				14-06-2021
3643	031-T-01	SHELL REPAIR	Shell	C07 RW T311-T312	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM103							395	27-05-2021			1	PAUT-1991	PAUT-195P			20-06-2021
3645	031-T-01	SHELL REPAIR	Shell	C07 RW T312-T313	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM15	SM103							395	27-05-2021			1	PAUT-195P				14-06-2021
3647	031-T-01	SHELL REPAIR	Shell	C07 RW T313-T314	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							395	27-05-2021			1	PAUT-1991	PAUT-195P			20-06-2021
3649	031-T-01	SHELL REPAIR	Shell	C07 RW T314-T315	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							395	27-05-2021			1	PAUT-196P				14-06-2021
3651	031-T-01	SHELL REPAIR	Shell	C07 RW T315-T316	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							395	27-05-2021			1	PAUT-196P				14-06-2021
3653	031-T-01	SHELL REPAIR	Shell	C07 RW T316-T317	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM18	SM33							395	27-05-2021			1	PAUT-196P				14-06-2021
3741	031-T-01	SHELL REPAIR	Shell	C08 RWT365	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							395	27-05-2021			1	80				10-06-2021
3742	031-T-01	SHELL REPAIR	Shell	C08 RWT365	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							395	27-05-2021			2	80				10-06-2021
3745	031-T-01	SHELL REPAIR	Shell	C08 RWT366	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							395	27-05-2021			1	80				10-06-2021
3746	031-T-01	SHELL REPAIR	Shell	C08 RWT366	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							396	28-05-2021			2	80				10-06-2021
3749	031-T-01	SHELL REPAIR	Shell	C08 RW T367	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			1	80				10-06-2021
3750	031-T-01	SHELL REPAIR	Shell	C08 RW T367	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			2	80				10-06-2021
3754	031-T-01	SHELL REPAIR	Shell	C08 RW T368	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			1	81				20-06-2021
3755	031-T-01	SHELL REPAIR	Shell	C08 RW T368	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			2	81				20-06-2021
3758	031-T-01	SHELL REPAIR	Shell	C08 RW T369	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			1	81				20-06-2021
3759	031-T-01	SHELL REPAIR	Shell	C08 RW T369	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			2	81				20-06-2021
3762	031-T-01	SHELL REPAIR	Shell	C08 RW T370	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			1	80				10-06-2021
3763	031-T-01	SHELL REPAIR	Shell	C08 RW T370	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM15	SM103							396	28-05-2021			2	80				10-06-2021
3766	031-T-01	SHELL REPAIR	Shell	C08 RW T371	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							396	28-05-2021			1	80				10-06-2021
3767	031-T-01	SHELL REPAIR	Shell	C08 RW T371	11.1	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM18	SM33							396	28-05-2021			2	80				10-06-2021
3827	031-T-01	SHELL REPAIR	Shell	C08 RW T364-T365	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM18	SM33							396	28-05-2021			1	PAUT-201P				22-06-2021
3829	031-T-01	SHELL REPAIR	Shell	C08 RW T365-T366	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM18							396	28-05-2021			1	PAUT-197P				14-06-2021
3831	031-T-01	SHELL REPAIR	Shell	C08 RW T366-T367	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM18							396	28-05-2021			1	PAUT-197P				14-06-2021
3832	031-T-01	SHELL REPAIR	Shell	C08 RW T367-T367A	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM18							396	28-05-2021			1	PAUT-197P				14-06-2021
3833	031-T-01	SHELL REPAIR	Shell	C08 RW T367A-T368	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM103							396	28-05-2021			1	PAUT-197P				14-06-2021
3836	031-T-01	SHELL REPAIR	Shell	C08 RW T368-T369	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM18							396	28-05-2021			1	PAUT-197P				14-06-2021
3838	031-T-01	SHELL REPAIR	Shell	C08 RW T369-T370	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							396	28-05-2021			1	PAUT-197P				14-06-2021
3840	031-T-01	SHELL REPAIR	Shell	C08 RW T370-T371	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM103	SM33							396	28-05-2021			1	PAUT-197P				14-06-2021

Sr. No	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
3574																														
3575																														
3635																							14	24-06-2021						
3637																							14	24-06-2021						
3639																							24	24-06-2021						
3640																							24	24-06-2021						
3641																							24	24-06-2021						
3643																							14	24-06-2021						
3645																							15	24-06-2021						
3647																							15	24-06-2021						
3649																							15	24-06-2021						
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3833																							24	24-06-2021						
3836																							22	24-06-2021						
3838																							22	24-06-2021						
3840																							22	24-06-2021						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date	RT Report – SHOOT NO	RT Report – ACC	RT Report – REJ.	RT Report – R/S	RT Report – Defect location	RT Report – Date
3842	031-T-01	SHELL REPAIR	Shell	C08 RW T371-T372	11.1	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM103	SM33							396	28-05-2021			1	PAUT-201P				22-06-2021
3926	031-T-01	SHELL REPAIR	Shell	C09 RW T418	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM103	SM33							396	28-05-2021			1	82				21-06-2021
3927	031-T-01	SHELL REPAIR	Shell	C09 RW T418	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM103	SM33							396	28-05-2021			2	82				21-06-2021
3930	031-T-01	SHELL REPAIR	Shell	C09 RW T419	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM103	SM33							396	28-05-2021			1	82				21-06-2021
3931	031-T-01	SHELL REPAIR	Shell	C09 RW T419	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM103	SM33							396	28-05-2021			2	82				21-06-2021
3934	031-T-01	SHELL REPAIR	Shell	C09 RW T420	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			1	82				21-06-2021
3935	031-T-01	SHELL REPAIR	Shell	C09 RW T420	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			2	82				21-06-2021
3938	031-T-01	SHELL REPAIR	Shell	C09 RW T421	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			1	82				21-06-2021
3939	031-T-01	SHELL REPAIR	Shell	C09 RW T421	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			2	82				21-06-2021
3942	031-T-01	SHELL REPAIR	Shell	C09 RW T422	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			1	82				21-06-2021
3943	031-T-01	SHELL REPAIR	Shell	C09 RW T422	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							396	28-05-2021			2	82				21-06-2021
3946	031-T-01	SHELL REPAIR	Shell	C09 RW T423	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			1	82				21-06-2021
3947	031-T-01	SHELL REPAIR	Shell	C09 RW T423	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			2	82				21-06-2021
3950	031-T-01	SHELL REPAIR	Shell	C09 RW T424	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			1	83		82		22-06-2021
3951	031-T-01	SHELL REPAIR	Shell	C09 RW T424	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			2	83		82		22-06-2021
3954	031-T-01	SHELL REPAIR	Shell	C09 RW T425	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			1	82				21-06-2021
3955	031-T-01	SHELL REPAIR	Shell	C09 RW T425	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			2	82				21-06-2021
3958	031-T-01	SHELL REPAIR	Shell	C09 RW T426	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			1	82				21-06-2021
3959	031-T-01	SHELL REPAIR	Shell	C09 RW T426	10	1251-100-116-02-XX-D01-017	H	H	SA283Grc	H	H	SA283Grc	H	H	SMAW	SM33	SM18							397	29-05-2021			2	82				21-06-2021
4016	031-T-01	SHELL REPAIR	Shell	C09 RW T418-T419	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM18							397	29-05-2021			1	PAUT-201P				22-06-2021
4018	031-T-01	SHELL REPAIR	Shell	C09 RW T419-T420	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM33	SM18							397	29-05-2021			1	PAUT-202P				22-06-2021
4020	031-T-01	SHELL REPAIR	Shell	C09 RW T420-T421	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							397	29-05-2021			1	PAUT-202P				22-06-2021
4022	031-T-01	SHELL REPAIR	Shell	C09 RW T421-T422	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							397	29-05-2021			1	PAUT-202P				22-06-2021
4024	031-T-01	SHELL REPAIR	Shell	C09 RW T422-T423	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							397	29-05-2021			1	PAUT-202P				22-06-2021
4026	031-T-01	SHELL REPAIR	Shell	C09 RW T423-T424	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							397	29-05-2021			1	PAUT-202P				22-06-2021
4028	031-T-01	SHELL REPAIR	Shell	C09 RW T424-T425	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM103							397	29-05-2021			1	PAUT-202P				22-06-2021
4030	031-T-01	SHELL REPAIR	Shell	C09 RW T425-T426	10	1251-100-116-02-XX-D01-017	H	H	A283GRC	H	H	A283GRC	H	H	SMAW	SM15	SM18							397	29-05-2021			1	PAUT-202P				22-06-2021
5373	031-T-01	SHELL REPAIR	SHELL	RWV103	26.4	1251-100-116-02-XX-D01-017	285	26-05-21	A537CL2	414445	14163	A 537 CL2	414474	14163	SMAW	SM218	SM218							389	05-03-2021			1	PAUT-190P				04-05-21
5374	031-T-01	SHELL REPAIR	SHELL	RWV131	21.3	1251-100-116-02-XX-D01-017	285	26-05-21	A537CL2	3581	1214389	A 537 CL2	3577	1214389	SMAW	SM218	SM218							389	05-03-2021			1	PAUT-190P				04-05-21
5375	031-T-01	SHELL REPAIR	SHELL	RWV134	21.3	1251-100-116-02-XX-D01-017	285	26-05-21	A537CL2	4157	1209195	A 537 CL2	29533	1209195	SMAW	SM18	SM18							389	05-03-2021			1	PAUT-190P				04-05-21
5376	031-T-01	SHELL REPAIR	SHELL	V157A	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	1910085	14163	A 537 CL1	1910088	14163	SMAW	AR30	AR30							389	05-03-2021			1	PAUT-190P				04-05-21
5377	031-T-01	SHELL REPAIR	SHELL	V160A	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	1910085	14163	A 537 CL1	1910085	14163	SMAW	SM13	SM13							389	05-03-2021			1	PAUT-190P				04-05-21
5378	031-T-01	SHELL REPAIR	SHELL	RWV159	20.9	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	397993	14163	A 537 CL1	1910085	14163	SMAW	SM218	SM218							389	05-03-2021			1	PAUT-190P				04-05-21
5379	031-T-01	SHELL REPAIR	SHELL	RWV185	12.4	1251-100-116-02-XX-D01-017	285	26-05-21	A 537 CL1	57040	2991	A 537 CL1	57040	2991	SMAW	SM15	SM157							390	17-05-2021			1	PAUT-200P				21-06-21
5380	031-T-01	SHELL REPAIR	SHELL	V185A	12.4	1251-100-116-02-XX-D01-017	309	15-06-21	A 537 CL1	57040	2991	A 537 CL1	57040	2991	SMAW	SM218	SM218							390	17-05-2021			1	PAUT-200P				21-06-21

Sr. No	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
3842																							22	24-06-2021						
3926																														
3927																														
3930																														
3931																														
3934																														
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3959																														
4016																							23	24-06-2021						
4018																							23	24-06-2021						
4020																							23	24-06-2021						
4022																							23	24-06-2021						
4024																							23	24-06-2021						
4026																							23	24-06-2021						
4028																							23	24-06-2021						
4030																							23	24-06-2021						
5373																			9	24-06-21										
5374																			11	24-06-21										
5375																			11	24-06-21										
5376																			16	24-06-21										
5377																			16	24-06-21										
5378																			11	24-06-21										
5379																			12	24-06-21										
5380																			16	24-06-21										

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date	RT Report: SHOOT NO	RT Report: ACC	RT Report: REJ	RT Report: R/S	RT Report: Defect location	RT Report: Date
5381	031-T-01	SHELL REPAIR	SHELL	RWT202	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM218	SM218							391	18-05-2021			1	78				18-05-21
5382	031-T-01	SHELL REPAIR	SHELL	RWT203	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM15	SM15							391	18-05-2021			1	78				18-05-21
5383	031-T-01	SHELL REPAIR	Shell	C07 RW T317	12.4	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM103	SM128							397	29-05-2021			2	79				02-06-2021
5384	031-T-01	SHELL REPAIR	SHELL	C05 RWT209	21.3	1251-100-116-02-XX-D01-017	H	H	A537CL2	H	H	A537CL2	H	H	SMAW	SM33	SM33							397	29-05-2021			1	78				18-05-2021
5385	031-T-01	SHELL REPAIR	SHELL	T256A	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM13	SM13							391	18-05-2021			1	78				18-05-21
5386	031-T-01	SHELL REPAIR	SHELL	C06 RWT257	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM33							397	29-05-2021			1	79	78			02-06-2021
5387	031-T-01	SHELL REPAIR	SHELL	C06 RWT257	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM33	SM33							397	29-05-2021			2	78				18-05-2021
5388	031-T-01	SHELL REPAIR	SHELL	RWT260	20.9	1251-100-116-02-XX-D01-017	H	H	A 537 CL1	H	H	A537CL1	H	H	SMAW	SM218	SM218							391	18-05-2021			1	78				18-05-21
5389	031-T-01	ROOF REPAIR	UPPER DECK	RW U23	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512462	52847	SA283Grc	136679	53533	FCAW	FC05	FC05							397	29-05-2021								
5390	031-T-01	ROOF REPAIR	UPPER DECK	RW U24	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	138333	53839	SA283Grc	137950	53703	FCAW	FC05	FC05							397	29-05-2021								
5391	031-T-01	ROOF REPAIR	UPPER DECK	RW U25	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512727	53166	SA283Grc	139084	53703	FCAW	FC05	FC05							397	29-05-2021								
5392	031-T-01	ROOF REPAIR	UPPER DECK	RW U27	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512500	52847	SA283Grc	138328	53836	FCAW	FC05	FC05							397	29-05-2021								
5393	031-T-01	ROOF REPAIR	UPPER DECK	RW U28	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512469	52913	SA283Grc	138325	53836	FCAW	FC05	FC05							397	29-05-2021								
5394	031-T-01	ROOF REPAIR	UPPER DECK	RW U29	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512469	52913	SA283Grc	139084	53703	FCAW	FC05	FC05							397	29-05-2021								
5395	031-T-01	ROOF REPAIR	UPPER DECK	RW U30	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	135130	53333	SA283Grc	137951	53703	FCAW	FC05	FC05							398	30-05-2021								
5397	031-T-01	ROOF REPAIR	UPPER DECK	RW U32	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512462	52847	SA283Grc	138331	53839	FCAW	FC05	FC05							398	30-05-2021								
5398	031-T-01	ROOF REPAIR	UPPER DECK	RW U33	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512469	52847	SA283Grc	138333	53839	FCAW	FC05	FC05							398	30-05-2021								
5399	031-T-01	ROOF REPAIR	UPPER DECK	RW U34	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512466	52903	SA283Grc	512462	52847	FCAW	FC12	FC12							398	30-05-2021								
5400	031-T-01	ROOF REPAIR	UPPER DECK	RW U35	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512727	53166	SA283Grc	138331	53839	FCAW	FC12	FC12							398	30-05-2021								
5402	031-T-01	ROOF REPAIR	UPPER DECK	RW U37	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512469	52847	SA283Grc	136683	53533	FCAW	FC12	FC12							398	30-05-2021								
5403	031-T-01	ROOF REPAIR	UPPER DECK	RW U38	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	135931	53363	SA283Grc	139084	53703	FCAW	FC12	FC12							398	30-05-2021								
5404	031-T-01	ROOF REPAIR	UPPER DECK	RW U39	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	138331	53839	SA283Grc	138328	53836	FCAW	FC12	FC12							398	30-05-2021								
5405	031-T-01	ROOF REPAIR	UPPER DECK	RW U40	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	138333	53839	SA283Grc	138325	53836	FCAW	FC12	FC12							398	30-05-2021								
5406	031-T-01	ROOF REPAIR	UPPER DECK	RW U41	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512469	52847	SA283Grc	139084	53703	FCAW	FC12	FC12							398	30-05-2021								
5408	031-T-01	ROOF REPAIR	UPPER DECK	RW U44	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512462	52847	SA283Grc	512500	52847	FCAW	FC12	FC12							398	30-05-2021								
5409	031-T-01	ROOF REPAIR	UPPER DECK	RW U45	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512500	52847	SA283Grc	136679	53533	FCAW	FC12	FC12							398	30-05-2021								
5410	031-T-01	ROOF REPAIR	UPPER DECK	RW U46	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	138333	53839	SA283Grc	512500	52847	FCAW	FC12	FC12							398	30-05-2021								
5411	031-T-01	ROOF REPAIR	UPPER DECK	RW U47	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	512462	52847	SA283Grc	512469	52847	FCAW	FC12	FC12							398	30-05-2021								
5412	031-T-01	ROOF REPAIR	UPPER DECK	RW U48	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	138331	53839	SA283Grc	136679	53533	FCAW	FC12	FC12							398	30-05-2021								
5413	031-T-01	ROOF REPAIR	UPPER DECK	RW U50	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	136679	53533	SA283Grc	139086	53703	FCAW	FC12	FC12							398	30-05-2021								
5414	031-T-01	ROOF REPAIR	UPPER DECK	RW U51	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	136683	53533	SA283Grc	139086	53703	FCAW	FC12	FC12							398	30-05-2021								
5415	031-T-01	ROOF REPAIR	UPPER DECK	RW U52	5	1251-100-116-02-XX-D99-004	286	27-06-21	SA283Grc	139084	53703	SA283Grc	135130	53333	FCAW	FC12	FC12							398	30-05-2021								
5416	031-T-01	ROOF REPAIR	UPPER DECK	RW U53	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	136683	53533	SA283Grc	136679	53533	FCAW	FC12	FC12							398	30-05-2021								
5417	031-T-01	ROOF REPAIR	UPPER DECK	RW U54	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	139086	53703	FCAW	FC12	FC12							398	30-05-2021								
5418	031-T-01	ROOF REPAIR	UPPER DECK	RW U56	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138328	53836	SA283Grc	512469	52847	FCAW	FC12	FC12							398	30-05-2021								

UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date
5419	031-T-01	ROOF REPAIR	UPPER DECK	RW U57	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138325	53836	SA283Grc	135931	53363	FCAW	FC12	FC12							398	30-05-2021		
5420	031-T-01	ROOF REPAIR	UPPER DECK	RW U58	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	138331	53839	FCAW	FC12	FC12							398	30-05-2021		
5421	031-T-01	ROOF REPAIR	UPPER DECK	RW U59	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	136679	53533	SA283Grc	138333	53839	FCAW	FC12	FC12							398	30-05-2021		
5422	031-T-01	ROOF REPAIR	UPPER DECK	RW U60	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	137950	53703	SA283Grc	512469	52847	FCAW	FC12	FC12							399	31-05-2021		
5423	031-T-01	ROOF REPAIR	UPPER DECK	RW U61	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	512500	52847	FCAW	FC12	FC12							399	31-05-2021		
5425	031-T-01	ROOF REPAIR	UPPER DECK	RW U63	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138325	53836	SA283Grc	512500	52847	FCAW	FC12	FC12							399	31-05-2021		
5426	031-T-01	ROOF REPAIR	UPPER DECK	RW U64	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	135931	53363	FCAW	FC12	FC12							399	31-05-2021		
5427	031-T-01	ROOF REPAIR	UPPER DECK	RW U65	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	137951	53703	SA283Grc	138331	53839	FCAW	FC12	FC12							399	31-05-2021		
5428	031-T-01	ROOF REPAIR	UPPER DECK	RW U66	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	512500	52847	SA283Grc	138333	53839	FCAW	FC12	FC12							399	31-05-2021		
5429	031-T-01	ROOF REPAIR	UPPER DECK	RW U67	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138331	53839	SA283Grc	137930	53730	FCAW	FC12	FC12							399	31-05-2021		
5430	031-T-01	ROOF REPAIR	UPPER DECK	RW U68	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138333	53839	SA283Grc	512462	52847	FCAW	FC12	FC12							399	31-05-2021		
5431	031-T-01	ROOF REPAIR	UPPER DECK	RW U72	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	512462	52847	SA283Grc	512469	52847	FCAW	FC12	FC12							399	31-05-2021		
5432	031-T-01	ROOF REPAIR	UPPER DECK	RW U73	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138331	53839	SA283Grc	512462	52847	FCAW	FC12	FC12							399	31-05-2021		
5433	031-T-01	ROOF REPAIR	UPPER DECK	RW U74	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	136679	53533	SA283Grc	512500	52847	FCAW	FC12	FC12							399	31-05-2021		
5434	031-T-01	ROOF REPAIR	UPPER DECK	RW U75	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	136683	53533	SA283Grc	512469	52847	FCAW	FC12	FC12							399	31-05-2021		
5435	031-T-01	ROOF REPAIR	UPPER DECK	RW U76	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	512550	52951	FCAW	FC20	FC20	FC2(	FC2(	FC2(	FC2(	FC20	FC20	399	31-05-2021		
5436	031-T-01	ROOF REPAIR	UPPER DECK	RW U79	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138328	53836	SA283Grc	512550	52951	FCAW	FC20	FC20							399	31-05-2021		
5437	031-T-01	ROOF REPAIR	UPPER DECK	RW U80	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	138325	53836	SA283Grc	512727	53166	FCAW	FC20	FC20							399	31-05-2021		
5438	031-T-01	ROOF REPAIR	UPPER DECK	RW U81	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	139084	53703	SA283Grc	512462	52847	FCAW	FC20	FC20							399	31-05-2021		
5439	031-T-01	ROOF REPAIR	UPPER DECK	RW U82	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	137951	53703	SA283Grc	138333	53839	FCAW	FC20	FC20							399	31-05-2021		
5440	031-T-01	ROOF REPAIR	UPPER DECK	RW U83	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	512500	52847	SA283Grc	137950	53703	FCAW	FC20	FC20							399	31-05-2021		
5441	031-T-01	ROOF REPAIR	UPPER DECK	RW U84	5	1251-100-116-02-XX-D99-004	287	28-06-21	SA283Grc	136679	53533	SA283Grc	136678	53533	FCAW	FC20	FC20							399	31-05-2021		
5442	031-T-01	ROOF REPAIR	UPPER DECK	RW U87	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512500	52847	SA283Grc	512462	52847	FCAW	FC20	FC20							399	31-05-2021		
5443	031-T-01	ROOF REPAIR	UPPER DECK	RW U88	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512469	52847	SA283Grc	512500	52847	FCAW	FC20	FC20							399	31-05-2021		
5444	031-T-01	ROOF REPAIR	UPPER DECK	RW U89	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	136679	53533	SA283Grc	138331	53839	FCAW	FC20	FC20							399	31-05-2021		
5445	031-T-01	ROOF REPAIR	UPPER DECK	RW U90	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	139086	53703	SA283Grc	138333	53839	FCAW	FC20	FC20							399	31-05-2021		
5446	031-T-01	ROOF REPAIR	UPPER DECK	RW U91	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	139086	53703	SA283Grc	512462	52847	FCAW	FC20	FC20							399	31-05-2021		
5447	031-T-01	ROOF REPAIR	UPPER DECK	RW U92	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	135130	53333	SA283Grc	138331	53839	FCAW	FC20	FC20							400	01-06-2021		
5448	031-T-01	ROOF REPAIR	UPPER DECK	RW U93	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	136679	53533	SA283Grc	138333	53839	FCAW	FC20	FC20							400	01-06-2021		
5449	031-T-01	ROOF REPAIR	UPPER DECK	RW U96	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	139086	53703	SA283Grc	512462	52847	FCAW	FC20	FC20							400	01-06-2021		
5450	031-T-01	ROOF REPAIR	UPPER DECK	RW U97	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512462	52847	SA283Grc	136679	53533	FCAW	FC20	FC20							400	01-06-2021		
5451	031-T-01	ROOF REPAIR	UPPER DECK	RW U98	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	138333	53839	SA283Grc	139086	53703	FCAW	FC20	FC20							400	01-06-2021		
5452	031-T-01	ROOF REPAIR	UPPER DECK	RW U99	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	137950	53703	SA283Grc	139086	53703	FCAW	FC20	FC20							400	01-06-2021		
5453	031-T-01	ROOF REPAIR	UPPER DECK	RW U100	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	53839	53839	SA283Grc	135130	53333	FCAW	FC20	FC20							400	01-06-2021		
5454	031-T-01	ROOF REPAIR	UPPER DECK	RW U104	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512469	52913	SA283Grc	138333	53839	FCAW	FC11	FC11							400	01-06-2021		

Sr. No	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No.: 1	Welder No.: 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date
5455	031-T-01	ROOF REPAIR	UPPER DECK	RW U105	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	138333	53839	SA283Grc	512466	52903	FCAW	FC11	FC11							400	01-06-2021		
5456	031-T-01	ROOF REPAIR	UPPER DECK	RW U106	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512727	53166	SA283Grc	137933	53730	FCAW	FC11	FC11							400	01-06-2021		
5457	031-T-01	ROOF REPAIR	UPPER DECK	RW U107	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512466	52903	SA283Grc	138333	53839	FCAW	FC11	FC11							400	01-06-2021		
5458	031-T-01	ROOF REPAIR	UPPER DECK	RW U108	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	135931	53363	SA283Grc	129226	52847	FCAW	FC11	FC11							400	01-06-2021		
5459	031-T-01	ROOF REPAIR	UPPER DECK	RW U113	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	137950	53703	SA283Grc	138333	53839	FCAW	FC11	FC11							400	01-06-2021		
5460	031-T-01	ROOF REPAIR	UPPER DECK	RW U114	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512462	52847	SA283Grc	512469	52847	FCAW	FC11	FC11							400	01-06-2021		
5461	031-T-01	ROOF REPAIR	UPPER DECK	RW U115	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512500	52847	SA283Grc	512500	52847	FCAW	FC11	FC11							400	01-06-2021		
5462	031-T-01	ROOF REPAIR	UPPER DECK	RW U116	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512469	52847	SA283Grc	512462	52847	FCAW	FC11	FC11							400	01-06-2021		
5463	031-T-01	ROOF REPAIR	UPPER DECK	RW U117	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512466	52903	SA283Grc	512500	52847	FCAW	FC11	FC11							400	01-06-2021		
5464	031-T-01	ROOF REPAIR	UPPER DECK	RW U118	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	135130	53333	SA283Grc	512469	52847	FCAW	FC11	FC11							400	01-06-2021		
5465	031-T-01	ROOF REPAIR	UPPER DECK	RW U120	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512469	52847	SA283Grc	512466	52903	FCAW	FC11	FC11							400	01-06-2021		
5466	031-T-01	ROOF REPAIR	UPPER DECK	RW U121	5	1251-100-116-02-XX-D99-004	288	29-05-21	SA283Grc	512469	52847	SA283Grc	512727	53166	FCAW	FC11	FC11							400	01-06-2021		
5467	031-T-01	ROOF REPAIR	UPPER DECK	RW U122	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	137933	53730	SA283Grc	512466	52903	FCAW	FC11	FC11							400	01-06-2021		
5468	031-T-01	ROOF REPAIR	UPPER DECK	RW U123	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	135130	53333	SA283Grc	135931	53363	FCAW	FC11	FC11							400	01-06-2021		
5469	031-T-01	ROOF REPAIR	UPPER DECK	RW U124	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	138331	53839	FCAW	FC11	FC11							400	01-06-2021		
5470	031-T-01	ROOF REPAIR	UPPER DECK	RW U125	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	138331	53839	SA283Grc	512462	52847	FCAW	FC11	FC11							400	01-06-2021		
5471	031-T-01	ROOF REPAIR	UPPER DECK	RW U126	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512498	52847	SA283Grc	512469	52847	FCAW	FC11	FC11							401	02-06-2021		
5472	031-T-01	ROOF REPAIR	UPPER DECK	RW U127	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	512469	52847	FCAW	FC11	FC11							401	02-06-2021		
5473	031-T-01	ROOF REPAIR	UPPER DECK	RW U129	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512462	52847	SA283Grc	136679	53533	FCAW	FC02	FC02							401	02-06-2021		
5474	031-T-01	ROOF REPAIR	UPPER DECK	RW U130	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	137950	53703	FCAW	FC02	FC02							401	02-06-2021		
5475	031-T-01	ROOF REPAIR	UPPER DECK	RW U131	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	135931	53363	SA283Grc	512462	52847	FCAW	FC02	FC02							401	02-06-2021		
5476	031-T-01	ROOF REPAIR	UPPER DECK	RW U132	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	138331	53839	SA283Grc	512500	52847	FCAW	FC02	FC02							401	02-06-2021		
5477	031-T-01	ROOF REPAIR	UPPER DECK	RW U133	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	138333	53839	SA283Grc	512469	52847	FCAW	FC02	FC02							401	02-06-2021		
5478	031-T-01	ROOF REPAIR	UPPER DECK	RW U134	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	138331	53839	FCAW	FC02	FC02							401	02-06-2021		
5479	031-T-01	ROOF REPAIR	UPPER DECK	RW U135	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512500	52847	SA283Grc	512462	52847	FCAW	FC02	FC02							401	02-06-2021		
5480	031-T-01	ROOF REPAIR	UPPER DECK	RW U137	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512462	52847	SA283Grc	135931	53363	FCAW	FC02	FC02							401	02-06-2021		
5481	031-T-01	ROOF REPAIR	UPPER DECK	RW U138	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512500	52847	SA283Grc	138331	53839	FCAW	FC02	FC02							401	02-06-2021		
5482	031-T-01	ROOF REPAIR	UPPER DECK	RW U139	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	138333	53839	FCAW	FC02	FC02							401	02-06-2021		
5483	031-T-01	ROOF REPAIR	UPPER DECK	RW U140	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512469	52847	SA283Grc	137930	53730	FCAW	FC02	FC02							401	02-06-2021		
5484	031-T-01	ROOF REPAIR	UPPER DECK	RW U141	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	138331	53839	SA283Grc	512462	52847	FCAW	FC05	FC05							401	02-06-2021		
5485	031-T-01	ROOF REPAIR	UPPER DECK	RW U142	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512550	52951	SA283Grc	512469	52847	FCAW	FC05	FC05							401	02-06-2021		
5486	031-T-01	ROOF REPAIR	UPPER DECK	RW U143	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512727	53166	SA283Grc	512462	52847	FCAW	FC05	FC05							401	02-06-2021		
5487	031-T-01	ROOF REPAIR	UPPER DECK	RW U144	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	137933	53730	SA283Grc	512500	52847	FCAW	FC05	FC05							401	02-06-2021		
5488	031-T-01	ROOF REPAIR	UPPER DECK	RW U146	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	137950	53703	SA283Grc	512469	52847	FCAW	FC05	FC05							401	02-06-2021		
5489	031-T-01	ROOF REPAIR	UPPER DECK	RW U147	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512501	52847	SA283Grc	512550	52951	FCAW	FC05	FC05							401	02-06-2021		

Sr. No	RT Report: SHOOT NO	RT Report: ACC	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report		A			B			Welding Process	Welder No.		REP. BY	Consumable			Heat Treatment		VISUAL INSPECTION			
							Report No	Date	Classification	Heat No.	Certificate No.	Classification.	Heat No.	Certificate No.		1	2		Class.	Batch No.	Size	Report No	Date.	VIS No	Date.	REP No.	Date.
5490	031-T-01	ROOF REPAIR	UPPER DECK	RW U148	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512500	52847	SA283Grc	512550	52951	FCAW	FC05	FC05							401	02-06-2021		
5491	031-T-01	ROOF REPAIR	UPPER DECK	RW U149	5	1251-100-116-02-XX-D99-004	289	30-05-21	SA283Grc	512500	52847	SA283Grc	512727	53166	FCAW	FC05	FC05							401	02-06-2021		
5492	031-T-01	ROOF REPAIR	UPPER DECK	RW U150	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	138333	53839	SA283Grc	512462	52847	FCAW	FC05	FC05							401	02-06-2021		
5493	031-T-01	ROOF REPAIR	UPPER DECK	RW U151	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512500	52847	SA283Grc	138333	53839	FCAW	FC12	FC12							401	02-06-2021		
5494	031-T-01	ROOF REPAIR	UPPER DECK	RW U152	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512500	52847	SA283Grc	137950	53703	FCAW	FC12	FC12							401	02-06-2021		
5495	031-T-01	ROOF REPAIR	UPPER DECK	RW U153	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	135931	53363	SA283Grc	512501	52847	FCAW	FC12	FC12							402	02-06-2021		
5496	031-T-01	ROOF REPAIR	UPPER DECK	RW U155	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	138333	53839	SA283Grc	512500	52847	FCAW	FC12	FC12							402	02-06-2021		
5497	031-T-01	ROOF REPAIR	UPPER DECK	RW U156	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	137930	53730	SA283Grc	512500	52847	FCAW	FC12	FC12							402	02-06-2021		
5498	031-T-01	ROOF REPAIR	UPPER DECK	RW U157	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512466	52903	SA283Grc	512469	52847	FCAW	FC12	FC12							402	02-06-2021		
5499	031-T-01	ROOF REPAIR	UPPER DECK	RW U158	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512462	52847	SA283Grc	512500	52847	FCAW	FC12	FC12							402	02-06-2021		
5500	031-T-01	ROOF REPAIR	UPPER DECK	RW U159	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512500	52847	SA283Grc	135931	53363	FCAW	FC12	FC12							402	02-06-2021		
5501	031-T-01	ROOF REPAIR	UPPER DECK	RW U160	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512550	52951	SA283Grc	138331	53839	FCAW	FC12	FC12							402	02-06-2021		
5502	031-T-01	ROOF REPAIR	UPPER DECK	RW U161	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512550	52951	SA283Grc	138333	53839	FCAW	FC12	FC12							402	02-06-2021		
5503	031-T-01	ROOF REPAIR	UPPER DECK	RW U162	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512469	52847	SA283Grc	137930	53730	FCAW	FC12	FC12							402	02-06-2021		
5504	031-T-01	ROOF REPAIR	UPPER DECK	RW U165	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512727	53166	SA283Grc	512500	52847	FCAW	FC12	FC12							402	02-06-2021		
5505	031-T-01	ROOF REPAIR	UPPER DECK	RW U166	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512727	53166	SA283Grc	512550	52951	FCAW	FC12	FC12							402	02-06-2021		
5506	031-T-01	ROOF REPAIR	UPPER DECK	RW U167	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512727	53166	SA283Grc	512550	52951	FCAW	FC20	FC20							402	02-06-2021		
5507	031-T-01	ROOF REPAIR	UPPER DECK	RW U168	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512501	52847	SA283Grc	512469	52847	FCAW	FC20	FC20							402	02-06-2021		
5508	031-T-01	ROOF REPAIR	UPPER DECK	RW U169	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512469	52913	SA283Grc	512462	52847	FCAW	FC20	FC20							402	02-06-2021		
5509	031-T-01	ROOF REPAIR	UPPER DECK	RW U170	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512500	52847	SA283Grc	138333	53839	FCAW	FC20	FC20							402	02-06-2021		
5510	031-T-01	ROOF REPAIR	UPPER DECK	RW U171	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512469	52913	SA283Grc	512727	53166	FCAW	FC20	FC20							402	02-06-2021		
5511	031-T-01	ROOF REPAIR	UPPER DECK	RW U174	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	138333	53839	SA283Grc	512500	52847	FCAW	FC20	FC20							402	02-06-2021		
5512	031-T-01	ROOF REPAIR	UPPER DECK	RW U175	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	137950	53703	SA283Grc	512469	52913	FCAW	FC20	FC20							402	02-06-2021		
5513	031-T-01	ROOF REPAIR	UPPER DECK	RW U176	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512726	53166	SA283Grc	512469	52913	FCAW	FC20	FC20							402	02-06-2021		
5514	031-T-01	ROOF REPAIR	UPPER DECK	RW U177	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512727	53166	SA283Grc	135130	53333	FCAW	FC20	FC20							402	02-06-2021		
5515	031-T-01	ROOF REPAIR	UPPER DECK	RW U184	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512727	53166	SA283Grc	512466	52903	FCAW	FC20	FC20							402	02-06-2021		
5516	031-T-01	ROOF REPAIR	UPPER DECK	RW U185	5	1251-100-116-02-XX-D99-004	290	31-05-21	SA283Grc	512466	52903	SA283Grc	512462	52847	FCAW	FC20	FC20							402	02-06-2021		
5517	031-T-01	ROOF REPAIR	UPPER DECK	RW U186	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512466	52903	SA283Grc	512469	52847	FCAW	FC20	FC20							402	02-06-2021		
5518	031-T-01	ROOF REPAIR	UPPER DECK	RW U193	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512469	52847	SA283Grc	512466	52903	FCAW	FC11	FC11							402	02-06-2021		
5519	031-T-01	ROOF REPAIR	UPPER DECK	RW U194	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	512727	53166	FCAW	FC11	FC11							403	03-06-2021		
5520	031-T-01	ROOF REPAIR	UPPER DECK	RW U195	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	512469	52847	FCAW	FC11	FC11							403	03-06-2021		
5521	031-T-01	ROOF REPAIR	UPPER DECK	RW U196	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	135130	53333	SA283Grc	512469	52913	FCAW	FC11	FC11							403	03-06-2021		
5522	031-T-01	ROOF REPAIR	UPPER DECK	RW U197	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	135130	53333	SA283Grc	512466	52903	FCAW	FC11	FC11							403	03-06-2021		
5523	031-T-01	ROOF REPAIR	UPPER DECK	RW U198	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	512469	52847	FCAW	FC11	FC11							403	03-06-2021		
5524	031-T-01	ROOF REPAIR	UPPER DECK	RW U199	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	135130	53333	SA283Grc	512469	52913	FCAW	FC11	FC11							403	03-06-2021		

Sr. No	RT Report						UT		MT Inside		MT Outside		PT Inside		PT Outside		Vacuum Test Root		Vacuum Test Cap		Leak Test		Peaking Before		Peaking After		Banding Before		Banding After		Plumbness Before		Plumbness After		Roundness	
	SHOOT NO	ACC.	REJ.	R/S	Defect location	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report		A			B			Welding Process	Welder No.		REP. BY	Consumable			Heat Treatment		VISUAL INSPECTION			
							Report No	Date	Classification	Heat No.	Certificate No.	Classification	Heat No.	Certificate No.		1	2		Class	Batch No.	Size	Report No	Date	VIS No	Date	REP No.	Date
5525	031-T-01	ROOF REPAIR	UPPER DECK	RW U203	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	135130	53333	FCAW	FC11	FC11							403	03-06-2021		
5526	031-T-01	ROOF REPAIR	UPPER DECK	RW U204	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512462	52847	SA283Grc	139084	53703	FCAW	FC11	FC11							403	03-06-2021		
5527	031-T-01	ROOF REPAIR	UPPER DECK	RW U205	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512469	52913	SA283Grc	137951	53703	FCAW	FC11	FC11							403	03-06-2021		
5528	031-T-01	ROOF REPAIR	UPPER DECK	RW U208	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512550	52951	SA283Grc	512501	52847	FCAW	FC11	FC11							403	03-06-2021		
5529	031-T-01	ROOF REPAIR	UPPER DECK	RW U209	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	139084	53703	SA283Grc	512500	52847	FCAW	FC11	FC11							403	03-06-2021		
5530	031-T-01	ROOF REPAIR	UPPER DECK	RW U212	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	137930	53730	SA283Grc	512498	52847	FCAW	FC11	FC11							403	03-06-2021		
5531	031-T-01	ROOF REPAIR	UPPER DECK	RW U213	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512500	52847	SA283Grc	512501	52847	FCAW	FC11	FC11							403	03-06-2021		
5532	031-T-01	ROOF REPAIR	UPPER DECK	RW U214	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512550	52951	SA283Grc	512500	52847	FCAW	FC11	FC11							403	03-06-2021		
5533	031-T-01	ROOF REPAIR	UPPER DECK	RW U216	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	139084	53703	SA283Grc	138331	53839	FCAW	FC11	FC11							403	03-06-2021		
5534	031-T-01	ROOF REPAIR	UPPER DECK	RW U217	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	139086	53703	SA283Grc	138333	53839	FCAW	FC11	FC11							403	03-06-2021		
5535	031-T-01	ROOF REPAIR	UPPER DECK	RW U218	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	137950	53703	SA283Grc	137930	53730	FCAW	FC11	FC11							403	03-06-2021		
5536	031-T-01	ROOF REPAIR	UPPER DECK	RW U220	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	138333	53839	SA283Grc	512550	52951	FCAW	FC11	FC11							403	03-06-2021		
5537	031-T-01	ROOF REPAIR	UPPER DECK	RW U223	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	139086	53703	FCAW	FC11	FC11							403	03-06-2021		
5538	031-T-01	ROOF REPAIR	UPPER DECK	RW U224	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	512466	52903	SA283Grc	137950	53703	FCAW	FC11	FC11							403	03-06-2021		
5539	031-T-01	ROOF REPAIR	UPPER DECK	RW U225	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	137933	53730	SA283Grc	138331	53839	FCAW	FC05	FC05							403	03-06-2021		
5540	031-T-01	ROOF REPAIR	UPPER DECK	RW U226	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	136679	53533	SA283Grc	138333	53839	FCAW	FC05	FC05							403	03-06-2021		
5541	031-T-01	ROOF REPAIR	UPPER DECK	RW U227	5	1251-100-116-02-XX-D99-004	291	01-06-21	SA283Grc	137950	53703	SA283Grc	138332	53839	FCAW	FC05	FC05							403	03-06-2021		
5542	031-T-01	ROOF REPAIR	UPPER DECK	RW U228	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	139084	53703	SA283Grc	137950	53703	FCAW	FC05	FC05							403	03-06-2021		
5543	031-T-01	ROOF REPAIR	UPPER DECK	RW U229	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138328	53836	SA283Grc	512466	52903	FCAW	FC05	FC05							404	03-06-2021		
5544	031-T-01	ROOF REPAIR	UPPER DECK	RW U230	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138325	53836	SA283Grc	512466	52903	FCAW	FC05	FC05							404	03-06-2021		
5545	031-T-01	ROOF REPAIR	UPPER DECK	RW U233	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	139084	53703	SA283Grc	137950	53703	FCAW	FC05	FC05							404	03-06-2021		
5546	031-T-01	ROOF REPAIR	UPPER DECK	RW U234	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	137951	53703	SA283Grc	512469	52847	FCAW	FC05	FC05							404	03-06-2021		
5547	031-T-01	ROOF REPAIR	UPPER DECK	RW U235	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	512500	52847	SA283Grc	138328	53836	FCAW	FC05	FC05							404	03-06-2021		
5548	031-T-01	ROOF REPAIR	UPPER DECK	RW U237	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138331	53839	SA283Grc	136679	53533	FCAW	FC05	FC05							404	03-06-2021		
5549	031-T-01	ROOF REPAIR	UPPER DECK	RW U238	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138333	53839	SA283Grc	136683	53533	FCAW	FC05	FC05							404	03-06-2021		
5550	031-T-01	ROOF REPAIR	UPPER DECK	RW U239	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	512462	52847	SA283Grc	139084	53703	FCAW	FC05	FC05							404	03-06-2021		
5551	031-T-01	ROOF REPAIR	UPPER DECK	RW U244	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138331	53839	SA283Grc	136679	53533	FCAW	FC05	FC05							404	03-06-2021		
5552	031-T-01	ROOF REPAIR	UPPER DECK	RW U245	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	136679	53533	SA283Grc	512462	52847	FCAW	FC05	FC05							404	03-06-2021		
5553	031-T-01	ROOF REPAIR	UPPER DECK	RW U246	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	136683	53533	SA283Grc	512469	52913	FCAW	FC05	FC05							404	03-06-2021		
5554	031-T-01	ROOF REPAIR	UPPER DECK	RW U247	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	139084	53703	SA283Grc	512498	52847	FCAW	FC05	FC05							404	03-06-2021		
5555	031-T-01	ROOF REPAIR	UPPER DECK	RW U248	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138328	53836	SA283Grc	512466	52903	FCAW	FC05	FC05							404	03-06-2021		
5556	031-T-01	ROOF REPAIR	UPPER DECK	RW U249	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	138325	53836	SA283Grc	512466	52903	FCAW	FC05	FC05							404	03-06-2021		
5557	031-T-01	ROOF REPAIR	UPPER DECK	RW U251	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	139084	53703	SA283Grc	137950	53703	FCAW	FC12	FC12							404	03-06-2021		
5558	031-T-01	ROOF REPAIR	UPPER DECK	RW U252	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	137951	53703	SA283Grc	512469	52847	FCAW	FC12	FC12							404	03-06-2021		
5560	031-T-01	ROOF REPAIR	UPPER DECK	RW U254	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	136679	53533	SA283Grc	136683	53533	FCAW	FC12	FC12							404	03-06-2021		

Sr. No	RT Report						UT		MT				PT				Vacuum Test				Leak Test		Peaking				Banding				Plumbness				Roundness	
									Inside		Outside		Inside		Outside		Root		Cap				Before		After		Before		After		Before		After			
	SHOOT NO	ACC.	REJ.	R/S	Defect location	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	Visual Inspection – VIS No	Visual Inspection – Date
5561	031-T-01	ROOF REPAIR	UPPER DECK	RW U255	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	512500	52847	SA283Grc	138328	53836	FCAW	FC12	FC12							404	03-06-2021
5562	031-T-01	ROOF REPAIR	UPPER DECK	RW U256	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	512469	52847	SA283Grc	138325	53836	FCAW	FC12	FC12							404	03-06-2021
5563	031-T-01	ROOF REPAIR	UPPER DECK	RW U257	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	136679	53533	SA283Grc	136679	53533	FCAW	FC12	FC12							404	03-06-2021
5564	031-T-01	ROOF REPAIR	UPPER DECK	RW U258	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	139086	53703	SA283Grc	136683	53533	FCAW	FC12	FC12							404	03-06-2021
5565	031-T-01	ROOF REPAIR	UPPER DECK	RW U259	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	139086	53703	SA283Grc	139084	53703	FCAW	FC12	FC12							404	03-06-2021
5566	031-T-01	ROOF REPAIR	UPPER DECK	RW U260	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	135130	53333	SA283Grc	137951	53703	FCAW	FC12	FC12							404	03-06-2021
5567	031-T-01	ROOF REPAIR	UPPER DECK	RW U262	5	1251-100-116-02-XX-D99-004	292	02-06-21	SA283Grc	136679	53533	SA283Grc	138328	53836	FCAW	FC12	FC12							404	03-06-2021
5568	031-T-01	ROOF REPAIR	UPPER DECK	RW U263	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	139086	53703	SA283Grc	138325	53836	FCAW	FC12	FC12							405	04-06-2021
5569	031-T-01	ROOF REPAIR	UPPER DECK	RW U264	5	1251-100-116-02-XX-D99-004	H		SA283Grc			SA283Grc			FCAW	FC12	FC12							405	04-06-2021
5570	031-T-01	ROOF REPAIR	UPPER DECK	RW U265	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512466	52903	SA283Grc	135130	53333	FCAW	FC12	FC12							405	04-06-2021
5571	031-T-01	ROOF REPAIR	UPPER DECK	RW U266	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512469	52913	SA283Grc	135130	53333	FCAW	FC12	FC12							405	04-06-2021
5572	031-T-01	ROOF REPAIR	UPPER DECK	RW U267	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512466	52903	SA283Grc	135130	53333	FCAW	FC12	FC12							405	04-06-2021
5573	031-T-01	ROOF REPAIR	UPPER DECK	RW U269	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512727	53166	SA283Grc	512466	52903	FCAW	FC12	FC12							405	04-06-2021
5574	031-T-01	ROOF REPAIR	UPPER DECK	RW U270	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513145	53333	SA283Grc	512727	53166	FCAW	FC12	FC12							405	04-06-2021
5575	031-T-01	ROOF REPAIR	UPPER DECK	RW U272	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	137936	53730	SA283Grc	512469	52913	FCAW	FC20	FC20							405	04-06-2021
5576	031-T-01	ROOF REPAIR	UPPER DECK	RW U273	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	139084	53703	SA283Grc	135130	53333	FCAW	FC20	FC20							405	04-06-2021
5577	031-T-01	ROOF REPAIR	UPPER DECK	RW U274	5	1251-100-116-02-XX-D99-004	312	16-06-21	SA283Grc	513145	53333	SA283Grc	512466	52903	FCAW	FC20	FC20							405	04-06-2021
5578	031-T-01	ROOF REPAIR	UPPER DECK	RW U275	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	139084	53703	SA283Grc	512727	53166	FCAW	FC20	FC20							405	04-06-2021
5579	031-T-01	ROOF REPAIR	UPPER DECK	RW U276	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513145	53333	SA283Grc	513145	53333	FCAW	FC20	FC20							405	04-06-2021
5580	031-T-01	ROOF REPAIR	UPPER DECK	RW U277	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	139084	53703	SA283Grc	512462	52847	FCAW	FC20	FC20							405	04-06-2021
5581	031-T-01	ROOF REPAIR	UPPER DECK	RW U279	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513145	53333	SA283Grc	136679	53533	FCAW	FC20	FC20							405	04-06-2021
5582	031-T-01	ROOF REPAIR	UPPER DECK	RW U280	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	138331	53839	SA283Grc	137950	53703	FCAW	FC20	FC20							405	04-06-2021
5583	031-T-01	ROOF REPAIR	UPPER DECK	RW U281	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	138333	53839	SA283Grc	136679	53533	FCAW	FC20	FC20							405	04-06-2021
5584	031-T-01	ROOF REPAIR	UPPER DECK	RW U283	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513145	53333	SA283Grc	139084	53703	FCAW	FC20	FC20							405	04-06-2021
5585	031-T-01	ROOF REPAIR	UPPER DECK	RW U284	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	138331	53836	SA283Grc	138332	53839	FCAW	FC20	FC20							405	04-06-2021
5587	031-T-01	ROOF REPAIR	UPPER DECK	RW U286	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512500	52847	SA283Grc	138331	53839	FCAW	FC20	FC20							405	04-06-2021
5588	031-T-01	ROOF REPAIR	UPPER DECK	RW U287	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512500	52847	SA283Grc	138333	53839	FCAW	FC20	FC20							405	04-06-2021
5589	031-T-01	ROOF REPAIR	UPPER DECK	RW U288	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	138331	53836	SA283Grc	138332	53839	FCAW	FC20	FC20							405	04-06-2021
5590	031-T-01	ROOF REPAIR	UPPER DECK	RW U289	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	128242	52874	SA283Grc	513145	53333	FCAW	FC20	FC20							405	04-06-2021
5591	031-T-01	ROOF REPAIR	UPPER DECK	RW U293	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	136679	53533	SA283Grc	512500	52847	FCAW	FC20	FC20							405	04-06-2021
5592	031-T-01	ROOF REPAIR	UPPER DECK	RW U294	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513336	53533	SA283Grc	138328	53836	FCAW	FC20	FC20							405	04-06-2021
5594	031-T-01	ROOF REPAIR	UPPER DECK	RW U296	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513336	53533	SA283Grc	138327	53836	FCAW	FC20	FC20							406	04-06-2021
5595	031-T-01	ROOF REPAIR	UPPER DECK	RW U297	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	513336	53533	SA283Grc	138328	53836	FCAW	FC20	FC20							406	04-06-2021
5596	031-T-01	ROOF REPAIR	UPPER DECK	RW U298	5	1251-100-116-02-XX-D99-004	293	03-06-21	SA283Grc	512469	52847	SA283Grc	136270	53533	FCAW	FC20	FC20							406	04-06-2021
5597	031-T-01	ROOF REPAIR	UPPER DECK	RW U300	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	137931	53730	SA283Grc	137938	53730	FCAW	FC20	FC20							406	04-06-2021

Sr. No	Tank No.	Part	Rare Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
5598	031-T-01	ROOF REPAIR	UPPER DECK	RW U301	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	137938	53730	SA283Grc	137946	53703	FCAW	FC02	FC02							406	04-06-2021																																						
5599	031-T-01	ROOF REPAIR	UPPER DECK	RW U304	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	137946	53703	SA283Grc	139084	53703	FCAW	FC02	FC02							406	04-06-2021																																						
5600	031-T-01	ROOF REPAIR	UPPER DECK	RW U305	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	139084	53703	SA283Grc	136247	53363	FCAW	FC02	FC02							406	04-06-2021																																						
5602	031-T-01	ROOF REPAIR	UPPER DECK	RW U307	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512466	52903	SA283Grc	135130	53333	FCAW	FC02	FC02							406	04-06-2021																																						
5603	031-T-01	ROOF REPAIR	UPPER DECK	RW U308	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512727	53166	SA283Grc	135929	53363	FCAW	FC02	FC02							406	04-06-2021																																						
5604	031-T-01	ROOF REPAIR	UPPER DECK	RW U309	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	135130	53333	SA283Grc	135931	53363	FCAW	FC02	FC02							406	04-06-2021																																						
5605	031-T-01	ROOF REPAIR	UPPER DECK	RW U311	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	138327	53836	SA283Grc	512500	52847	FCAW	FC02	FC02							406	04-06-2021																																						
5606	031-T-01	ROOF REPAIR	UPPER DECK	RW U312	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512501	52847	SA283Grc	512499	52847	FCAW	FC02	FC02							406	04-06-2021																																						
5607	031-T-01	ROOF REPAIR	UPPER DECK	RW U314	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	137933	53730	SA283Grc	512727	53166	FCAW	FC02	FC02							406	04-06-2021																																						
5608	031-T-01	ROOF REPAIR	UPPER DECK	RW U315	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	138327	53836	SA283Grc	512500	52847	FCAW	FC02	FC02							406	04-06-2021																																						
5610	031-T-01	ROOF REPAIR	UPPER DECK	RW U317	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512500	52847	SA283Grc	135130	53333	FCAW	FC02	FC02							406	04-06-2021																																						
5611	031-T-01	ROOF REPAIR	UPPER DECK	RW U318	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512726	53127	SA283Grc	136247	53363	FCAW	FC02	FC02							406	04-06-2021																																						
5612	031-T-01	ROOF REPAIR	UPPER DECK	RW U320	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	136679	53533	SA283Grc	138331	53836	FCAW	FC12	FC12							406	04-06-2021																																						
5613	031-T-01	ROOF REPAIR	UPPER DECK	RW U321	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	129228	52874	SA283Grc	137946	53703	FCAW	FC12	FC12							406	04-06-2021																																						
5614	031-T-01	ROOF REPAIR	UPPER DECK	RW U322	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	137946	53703	SA283Grc	512500	52847	FCAW	FC12	FC12							406	04-06-2021																																						
5615	031-T-01	ROOF REPAIR	UPPER DECK	RW U323	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	139084	53703	SA283Grc	512500	52847	FCAW	FC12	FC12							406	04-06-2021																																						
5616	031-T-01	ROOF REPAIR	UPPER DECK	RW U324	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	139086	53703	SA283Grc	512726	53127	FCAW	FC12	FC12							406	04-06-2021																																						
5617	031-T-01	ROOF REPAIR	UPPER DECK	RW U328	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512500	52847	SA283Grc	137946	53703	FCAW	FC12	FC12							406	04-06-2021																																						
5618	031-T-01	ROOF REPAIR	UPPER DECK	RW U329	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512500	52847	SA283Grc	139084	53703	FCAW	FC12	FC12							406	04-06-2021																																						
5619	031-T-01	ROOF REPAIR	UPPER DECK	RW U330	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	135130	53333	SA283Grc	139086	53703	FCAW	FC12	FC12							406	04-06-2021																																						
5620	031-T-01	ROOF REPAIR	UPPER DECK	RW U331	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512501	52847	SA283Grc	137950	53703	FCAW	FC12	FC12							407	05-06-2021																																						
5621	031-T-01	ROOF REPAIR	UPPER DECK	RW U332	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	512727	53166	SA283Grc	138331	53839	FCAW	FC12	FC12							407	05-06-2021																																						
5622	031-T-01	ROOF REPAIR	UPPER DECK	RW U333	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	135130	53333	SA283Grc	512727	53166	FCAW	FC12	FC12							407	05-06-2021																																						
5623	031-T-01	ROOF REPAIR	UPPER DECK	RW U334	5	1251-100-116-02-XX-D99-004	294	04-06-21	SA283Grc	136679	53533	SA283Grc	512500	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5624	031-T-01	ROOF REPAIR	UPPER DECK	RW U335	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	137946	53703	SA283Grc	512500	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5625	031-T-01	ROOF REPAIR	UPPER DECK	RW U338	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	512500	52847	SA283Grc	512727	53166	FCAW	FC12	FC12							407	05-06-2021																																						
5626	031-T-01	ROOF REPAIR	UPPER DECK	RW U339	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	512499	52847	SA283Grc	138328	53836	FCAW	FC12	FC12							407	05-06-2021																																						
5627	031-T-01	ROOF REPAIR	UPPER DECK	RW U340	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	136679	53533	SA283Grc	138331	53836	FCAW	FC12	FC12							407	05-06-2021																																						
5628	031-T-01	ROOF REPAIR	UPPER DECK	RW U341	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	129228	52874	SA283Grc	137946	53703	FCAW	FC12	FC12							407	05-06-2021																																						
5629	031-T-01	ROOF REPAIR	UPPER DECK	RW U342	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	137946	53703	SA283Grc	512500	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5630	031-T-01	ROOF REPAIR	UPPER DECK	RW U343	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	512469	52913	SA283Grc	512500	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5631	031-T-01	ROOF REPAIR	UPPER DECK	RW U344	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	138327	53836	SA283Grc	512500	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5632	031-T-01	ROOF REPAIR	UPPER DECK	RW U345	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	512501	52847	SA283Grc	512499	52847	FCAW	FC12	FC12							407	05-06-2021																																						
5633	031-T-01	ROOF REPAIR	UPPER DECK	RW U346	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	512500	52847	SA283Grc	129228	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5634	031-T-01	ROOF REPAIR	UPPER DECK	RW U349	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	135130	53333	SA283Grc	512469	52913	FCAW	FC05	FC05							407	05-06-2021																																						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report - Report No	Material Traceability Report - Date	A - Classification	A - Heat No.	A - Certificate No.	B - Classification	B - Heat No.	B - Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable - Class	Consumable - Batch No.	Consumable - Size	Heat Treatment - Report No	Heat Treatment - Date	Visual Inspection - VIS No	Visual Inspection - Date	Visual Inspection - REP No.	Visual Inspection - Date	RT Report - SHOOT NO	RT Report - ACC	RT Report - REJ	RT Report - R/S	RT Report - Defect location	RT Report - Date	UT - Report No.	UT - Date	MT Inside - Report No.	MT Inside - Date	MT Outside - Report No.	MT Outside - Date	PT Inside - Report No.	PT Inside - Date	PT Outside - Report No.	PT Outside - Date	Vacuum Test Root - Report No.	Vacuum Test Root - Date	Vacuum Test Cap - Report No.	Vacuum Test Cap - Date	Leak Test - Report No.	Leak Test - Date	Peaking Before - Report No.	Peaking Before - Date	Peaking After - Report No.	Peaking After - Date	Banding Before - Report No.	Banding Before - Date	Banding After - Report No.	Banding After - Date	Plumbness Before - Report No.	Plumbness Before - Date	Plumbness After - Report No.	Plumbness After - Date	Roundness - Report No.	Roundness - Date
5635	031-T-01	ROOF REPAIR	UPPER DECK	RW U350	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	135130	53333	SA283Grc	512498	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5636	031-T-01	ROOF REPAIR	UPPER DECK	RW U351	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	129248	52847	SA283Grc	512501	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5637	031-T-01	ROOF REPAIR	UPPER DECK	RW U352	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	138331	53836	SA283Grc	512500	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5638	031-T-01	ROOF REPAIR	UPPER DECK	RW U353	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	138327	53836	SA283Grc	512500	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5639	031-T-01	ROOF REPAIR	UPPER DECK	RW U354	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	138328	53836	SA283Grc	512469	52847	FCAW	FC05	FC05							407	05-06-2021																																						
5640	031-T-01	ROOF REPAIR	UPPER DECK	RW U355	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	136270	53533	SA283Grc	135130	53333	FCAW	FC05	FC05							407	05-06-2021																																						
5641	031-T-01	ROOF REPAIR	UPPER DECK	RW U356	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	136679	53533	SA283Grc	135130	53333	FCAW	FC05	FC05							407	05-06-2021																																						
5642	031-T-01	ROOF REPAIR	UPPER DECK	RW U359	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	135931	53363	SA283Grc	138327	53836	FCAW	FC05	FC05							407	05-06-2021																																						
5643	031-T-01	ROOF REPAIR	UPPER DECK	RW U360	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	135933	53363	SA283Grc	138328	53836	FCAW	FC05	FC05							407	05-06-2021																																						
5644	031-T-01	ROOF REPAIR	UPPER DECK	RW U361	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	136247	53363	SA283Grc	136270	53533	FCAW	FC05	FC05							408	05-06-2021																																						
5645	031-T-01	ROOF REPAIR	UPPER DECK	RW U362	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	137930	53730	SA283Grc	136679	53533	FCAW	FC05	FC05							408	05-06-2021																																						
5646	031-T-01	ROOF REPAIR	UPPER DECK	RW U363	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	137933	53730	SA283Grc	136680	53533	FCAW	FC05	FC05							408	05-06-2021																																						
5647	031-T-01	ROOF REPAIR	UPPER DECK	RW U364	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	137931	53730	SA283Grc	512505	52951	FCAW	FC05	FC05							408	05-06-2021																																						
5648	031-T-01	ROOF REPAIR	UPPER DECK	RW U365	5	1251-100-116-02-XX-D99-004	295	05-06-21	SA283Grc	137938	53730	SA283Grc	512928	53290	FCAW	FC05	FC05							408	05-06-2021																																						
5649	031-T-01	ROOF REPAIR	UPPER DECK	RW U366	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	137946	53703	SA283Grc	1235503	52847	FCAW	FC05	FC05							408	05-06-2021																																						
5650	031-T-01	ROOF REPAIR	UPPER DECK	RW U367	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	139084	53703	SA283Grc	128226	52847	FCAW	FC05	FC05							408	05-06-2021																																						
5651	031-T-01	ROOF REPAIR	UPPER DECK	RW U370	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	136247	53363	SA283Grc	135933	53363	FCAW	FC05	FC05							408	05-06-2021																																						
5652	031-T-01	ROOF REPAIR	UPPER DECK	RW U371	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137930	53730	SA283Grc	136247	53363	FCAW	FC05	FC05							408	05-06-2021																																						
5653	031-T-01	ROOF REPAIR	UPPER DECK	RW U372	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137933	53730	SA283Grc	137930	53730	FCAW	FC05	FC05							408	05-06-2021																																						
5654	031-T-01	ROOF REPAIR	UPPER DECK	RW U373	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137931	53730	SA283Grc	137933	53730	FCAW	FC05	FC05							408	05-06-2021																																						
5655	031-T-01	ROOF REPAIR	UPPER DECK	RW U374	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137938	53730	SA283Grc	137931	53730	FCAW	FC05	FC05							408	05-06-2021																																						
5656	031-T-01	ROOF REPAIR	UPPER DECK	RW U375	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137946	53703	SA283Grc	137938	53730	FCAW	FC05	FC05							408	05-06-2021																																						
5657	031-T-01	ROOF REPAIR	UPPER DECK	RW U376	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	139084	53703	SA283Grc	137946	53703	FCAW	FC05	FC05							408	05-06-2021																																						
5658	031-T-01	ROOF REPAIR	UPPER DECK	RW U377	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	139086	53703	SA283Grc	139084	53703	FCAW	FC11	FC11							408	05-06-2021																																						
5659	031-T-01	ROOF REPAIR	UPPER DECK	RW U380	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137946	53703	SA283Grc	136247	53363	FCAW	FC11	FC11							408	05-06-2021																																						
5660	031-T-01	ROOF REPAIR	UPPER DECK	RW U381	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	139080	53703	SA283Grc	137930	53730	FCAW	FC11	FC11							408	05-06-2021																																						
5661	031-T-01	ROOF REPAIR	UPPER DECK	RW U382	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	139084	53703	SA283Grc	137933	53730	FCAW	FC11	FC11							408	05-06-2021																																						
5662	031-T-01	ROOF REPAIR	UPPER DECK	RW U383	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137950	53703	SA283Grc	137931	53730	FCAW	FC11	FC11							408	05-06-2021																																						
5663	031-T-01	ROOF REPAIR	UPPER DECK	RW U384	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	137933	53730	SA283Grc	138331	53836	FCAW	FC11	FC11							408	05-06-2021																																						
5664	031-T-01	ROOF REPAIR	UPPER DECK	RW U385	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	135931	53363	SA283Grc	137946	53703	FCAW	FC11	FC11							408	05-06-2021																																						
5665	031-T-01	ROOF REPAIR	UPPER DECK	RW U386	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	13533	53363	SA283Grc	139084	53703	FCAW	FC11	FC11							408	05-06-2021																																						
5666	031-T-01	ROOF REPAIR	UPPER DECK	RW U387	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	136247	53363	SA283Grc	139086	53703	FCAW	FC11	FC11							408	05-06-2021																																						
5667	031-T-01	ROOF REPAIR	UPPER DECK	RW U388	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	138331	53836	SA283Grc	137950	53703	FCAW	FC11	FC11							408	05-06-2021																																						
5668	031-T-01	ROOF REPAIR	UPPER DECK	RW U392	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	136679	53533	SA283Grc	139084	53703	FCAW	FC11	FC11							409	06-06-2021																																						
5669	031-T-01	ROOF REPAIR	UPPER DECK	RW U393	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	136680	53533	SA283Grc	137950	53703	FCAW	FC11	FC11							409	06-06-2021																																						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No.: 1	Welder No.: 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No.	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date
5670	031-T-01	ROOF REPAIR	UPPER DECK	RW U394	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	135929	53363	SA283Grc	135929	53363	FCAW	FC11	FC11							409	06-06-2021		
5671	031-T-01	ROOF REPAIR	UPPER DECK	RW U395	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	135931	53363	SA283Grc	135931	53363	FCAW	FC11	FC11							409	06-06-2021		
5672	031-T-01	ROOF REPAIR	UPPER DECK	RW U396	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	135933	53363	SA283Grc	13533	53363	FCAW	FC11	FC11							409	06-06-2021		
5673	031-T-01	ROOF REPAIR	UPPER DECK	RW U397	5	1251-100-116-02-XX-D99-004	296	06-06-21	SA283Grc	136247	53363	SA283Grc	136247	53363	FCAW	FC11	FC11							409	06-06-2021		
5674	031-T-01	ROOF REPAIR	UPPER DECK	RW U398	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	137933	53730	SA283Grc	138331	53836	FCAW	FC11	FC11							409	06-06-2021		
5675	031-T-01	ROOF REPAIR	UPPER DECK	RW U402	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	139084	53703	SA283Grc	136679	53533	FCAW	FC20	FC20							409	06-06-2021		
5676	031-T-01	ROOF REPAIR	UPPER DECK	RW U403	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	139080	53703	SA283Grc	136680	53533	FCAW	FC20	FC20							409	06-06-2021		
5677	031-T-01	ROOF REPAIR	UPPER DECK	RW U404	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	139084	53703	SA283Grc	135929	53363	FCAW	FC20	FC20							409	06-06-2021		
5678	031-T-01	ROOF REPAIR	UPPER DECK	RW U405	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	137950	53703	SA283Grc	135931	53363	FCAW	FC20	FC20							409	06-06-2021		
5679	031-T-01	ROOF REPAIR	UPPER DECK	RW U406	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	135929	53363	SA283Grc	135933	53363	FCAW	FC20	FC20							409	06-06-2021		
5680	031-T-01	ROOF REPAIR	UPPER DECK	RW U407	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	135931	53363	SA283Grc	136247	53363	FCAW	FC20	FC20							409	06-06-2021		
5681	031-T-01	ROOF REPAIR	UPPER DECK	RW U408	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	13533	53363	SA283Grc	137933	53730	FCAW	FC20	FC20							409	06-06-2021		
5682	031-T-01	ROOF REPAIR	UPPER DECK	RW U412	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	135933	53363	SA283Grc	139084	53703	FCAW	FC20	FC20							409	06-06-2021		
5683	031-T-01	ROOF REPAIR	UPPER DECK	RW U413	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	136247	53363	SA283Grc	139080	53703	FCAW	FC20	FC20							409	06-06-2021		
5684	031-T-01	ROOF REPAIR	UPPER DECK	RW U414	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	136246	53363	SA283Grc	139084	53703	FCAW	FC20	FC20							409	06-06-2021		
5685	031-T-01	ROOF REPAIR	UPPER DECK	RW U415	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512726	53166	SA283Grc	137950	53703	FCAW	FC20	FC20							409	06-06-2021		
5686	031-T-01	ROOF REPAIR	UPPER DECK	RW U416	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512727	53166	SA283Grc	135929	53363	FCAW	FC20	FC20							409	06-06-2021		
5687	031-T-01	ROOF REPAIR	UPPER DECK	RW U417	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512726	53166	SA283Grc	135931	53363	FCAW	FC20	FC20							409	06-06-2021		
5688	031-T-01	ROOF REPAIR	UPPER DECK	RW U421	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512466	52903	SA283Grc	135931	53363	FCAW	FC20	FC20							409	06-06-2021		
5689	031-T-01	ROOF REPAIR	UPPER DECK	RW U422	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512466	52903	SA283Grc	135933	53363	FCAW	FC20	FC20							409	06-06-2021		
5690	031-T-01	ROOF REPAIR	UPPER DECK	RW U423	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512727	53166	SA283Grc	136247	53363	FCAW	FC20	FC20							409	06-06-2021		
5691	031-T-01	ROOF REPAIR	UPPER DECK	RW U424	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512727	53166	SA283Grc	136246	53363	FCAW	FC20	FC20							409	06-06-2021		
5692	031-T-01	ROOF REPAIR	UPPER DECK	RW U425	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512469	52913	SA283Grc	512726	53166	FCAW	FC20	FC20							410	06-06-2021		
5693	031-T-01	ROOF REPAIR	UPPER DECK	RW U426	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512466	52903	SA283Grc	512727	53166	FCAW	FC20	FC20							410	06-06-2021		
5694	031-T-01	ROOF REPAIR	UPPER DECK	RW U427	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512469	52847	SA283Grc	512726	53166	FCAW	FC20	FC20							410	06-06-2021		
5695	031-T-01	ROOF REPAIR	UPPER DECK	RW U431	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512727	53166	SA283Grc	512466	52903	FCAW	FC20	FC20							410	06-06-2021		
5696	031-T-01	ROOF REPAIR	UPPER DECK	RW U432	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512469	52913	SA283Grc	512466	52903	FCAW	FC20	FC20							410	06-06-2021		
5697	031-T-01	ROOF REPAIR	UPPER DECK	RW U433	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	512469	52913	SA283Grc	512727	53166	FCAW	FC20	FC20							410	06-06-2021		
5698	031-T-01	ROOF REPAIR	UPPER DECK	RW U434	5	1251-100-116-02-XX-D99-004	297	07-06-21	SA283Grc	513145	53333	SA283Grc	512727	53166	FCAW	FC20	FC20							410	06-06-2021		
5699	031-T-01	ROOF REPAIR	UPPER DECK	RW U435	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	513145	53333	SA283Grc	512469	52913	FCAW	FC20	FC20							410	06-06-2021		
5700	031-T-01	ROOF REPAIR	UPPER DECK	RW U436	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137936	53730	SA283Grc	512466	52903	FCAW	FC20	FC20							410	06-06-2021		
5701	031-T-01	ROOF REPAIR	UPPER DECK	RW U440	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	138328	53836	SA283Grc	512727	53166	FCAW	FC20	FC20							410	06-06-2021		
5702	031-T-01	ROOF REPAIR	UPPER DECK	RW U441	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136270	53533	SA283Grc	512727	53166	FCAW	FC20	FC20							410	06-06-2021		
5703	031-T-01	ROOF REPAIR	UPPER DECK	RW U442	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136679	53533	SA283Grc	512469	52913	FCAW	FC20	FC20							410	06-06-2021		
5704	031-T-01	ROOF REPAIR	UPPER DECK	RW U443	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136680	53533	SA283Grc	512469	52913	FCAW	FC20	FC20							410	06-06-2021		

Sr. No	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Bending Before: Report No.	Bending Before: Date	Bending After: Report No.	Bending After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date
5705	031-T-01	ROOF REPAIR	UPPER DECK	RW U444	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135929	53363	SA283Grc	513145	53333	FCAW	FC20	FC20							410	06-06-2021		
5706	031-T-01	ROOF REPAIR	UPPER DECK	RW U445	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135931	53363	SA283Grc	513145	53333	FCAW	FC20	FC20							410	06-06-2021		
5707	031-T-01	ROOF REPAIR	UPPER DECK	RW U449	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136270	53533	SA283Grc	138327	53836	FCAW	FC20	FC20							410	06-06-2021		
5708	031-T-01	ROOF REPAIR	UPPER DECK	RW U450	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136679	53533	SA283Grc	138328	53836	FCAW	FC20	FC20							410	06-06-2021		
5709	031-T-01	ROOF REPAIR	UPPER DECK	RW U451	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	136680	53533	SA283Grc	136270	53533	FCAW	FC20	FC20							410	06-06-2021		
5710	031-T-01	ROOF REPAIR	UPPER DECK	RW U452	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135929	53363	SA283Grc	136679	53533	FCAW	FC20	FC20							410	06-06-2021		
5711	031-T-01	ROOF REPAIR	UPPER DECK	RW U453	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135931	53363	SA283Grc	136680	53533	FCAW	FC20	FC20							410	06-06-2021		
5712	031-T-01	ROOF REPAIR	UPPER DECK	RW U454	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135933	53363	SA283Grc	135929	53363	FCAW	FC20	FC20							410	06-06-2021		
5713	031-T-01	ROOF REPAIR	UPPER DECK	RW U458	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137931	53730	SA283Grc	138328	53836	FCAW	FC20	FC20							410	06-06-2021		
5714	031-T-01	ROOF REPAIR	UPPER DECK	RW U459	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137938	53730	SA283Grc	136270	53533	FCAW	FC20	FC20							410	06-06-2021		
5715	031-T-01	ROOF REPAIR	UPPER DECK	RW U460	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137946	53703	SA283Grc	136679	53533	FCAW	FC20	FC20							410	06-06-2021		
5716	031-T-01	ROOF REPAIR	UPPER DECK	RW U461	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	139084	53703	SA283Grc	136680	53533	FCAW	FC20	FC20							411	07-06-2021		
5717	031-T-01	ROOF REPAIR	UPPER DECK	RW U462	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	139086	53703	SA283Grc	135929	53363	FCAW	FC20	FC20							411	07-06-2021		
5718	031-T-01	ROOF REPAIR	UPPER DECK	RW U463	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137950	53703	SA283Grc	135931	53363	FCAW	FC20	FC20							411	07-06-2021		
5719	031-T-01	ROOF REPAIR	UPPER DECK	RW U466	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	139084	53703	SA283Grc	137930	53730	FCAW	FC20	FC20							411	07-06-2021		
5720	031-T-01	ROOF REPAIR	UPPER DECK	RW U467	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	137950	53703	SA283Grc	137933	53730	FCAW	FC20	FC20							411	07-06-2021		
5721	031-T-01	ROOF REPAIR	UPPER DECK	RW U468	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135929	53363	SA283Grc	137931	53730	FCAW	FC20	FC20							411	07-06-2021		
5722	031-T-01	ROOF REPAIR	UPPER DECK	RW U469	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	135931	53363	SA283Grc	137938	53730	FCAW	FC20	FC20							411	07-06-2021		
5723	031-T-01	ROOF REPAIR	UPPER DECK	RW U470	5	1251-100-116-02-XX-D99-004	298	08-06-21	SA283Grc	13533	53363	SA283Grc	137946	53703	FCAW	FC20	FC20							411	07-06-2021		
5724	031-T-01	ROOF REPAIR	UPPER DECK	RW U471	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	136247	53363	SA283Grc	139084	53703	FCAW	FC20	FC20							411	07-06-2021		
5725	031-T-01	ROOF REPAIR	UPPER DECK	RW U472	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135929	53363	SA283Grc	139086	53703	FCAW	FC20	FC20							411	07-06-2021		
5726	031-T-01	ROOF REPAIR	UPPER DECK	RW U474	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135933	53363	SA283Grc	137946	53703	FCAW	FC02	FC02							411	07-06-2021		
5727	031-T-01	ROOF REPAIR	UPPER DECK	RW U475	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136247	53363	SA283Grc	139080	53703	FCAW	FC02	FC02							411	07-06-2021		
5728	031-T-01	ROOF REPAIR	UPPER DECK	RW U476	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136246	53363	SA283Grc	139084	53703	FCAW	FC02	FC02							411	07-06-2021		
5729	031-T-01	ROOF REPAIR	UPPER DECK	RW U477	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	138331	53836	SA283Grc	137950	53703	FCAW	FC02	FC02							411	07-06-2021		
5730	031-T-01	ROOF REPAIR	UPPER DECK	RW U478	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	138327	53836	SA283Grc	135929	53363	FCAW	FC02	FC02							411	07-06-2021		
5731	031-T-01	ROOF REPAIR	UPPER DECK	RW U480	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136270	53533	SA283Grc	13533	53363	FCAW	FC02	FC02							411	07-06-2021		
5732	031-T-01	ROOF REPAIR	UPPER DECK	RW U481	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136679	53533	SA283Grc	136247	53363	FCAW	FC02	FC02							411	07-06-2021		
5733	031-T-01	ROOF REPAIR	UPPER DECK	RW U484	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135933	53363	SA283Grc	135933	53363	FCAW	FC02	FC02							411	07-06-2021		
5734	031-T-01	ROOF REPAIR	UPPER DECK	RW U485	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136247	53363	SA283Grc	136247	53363	FCAW	FC02	FC02							411	07-06-2021		
5735	031-T-01	ROOF REPAIR	UPPER DECK	RW U486	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	512462	52847	SA283Grc	136246	53363	FCAW	FC02	FC02							411	07-06-2021		
5736	031-T-01	ROOF REPAIR	UPPER DECK	RW U487	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	512469	52847	SA283Grc	138331	53836	FCAW	FC02	FC02							411	07-06-2021		
5737	031-T-01	ROOF REPAIR	UPPER DECK	RW U488	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	512727	53166	SA283Grc	138327	53836	FCAW	FC02	FC02							411	07-06-2021		
5738	031-T-01	ROOF REPAIR	UPPER DECK	RW U492	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	513145	53333	SA283Grc	136680	53533	FCAW	FC02	FC02							411	07-06-2021		
5739	031-T-01	ROOF REPAIR	UPPER DECK	RW U493	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	513145	53333	SA283Grc	135931	53363	FCAW	FC02	FC02							412	07-06-2021		

RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report		A			B			Welding Process	Welder No.		REP BY	Consumable			Heat Treatment		VISUAL INSPECTION			
							Report No	Date	Classification	Heat No.	Certificate No.	Classification	Heat No.	Certificate No.		1	2		Class	Batch No.	Size	Report No	Date	VIS No	Date	REP No.	Date
5740	031-T-01	ROOF REPAIR	UPPER DECK	RW U494	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	137936	53730	SA283Grc	135933	53363	FCAW	FC02	FC02							412	07-06-2021		
5741	031-T-01	ROOF REPAIR	UPPER DECK	RW U495	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	137946	53703	SA283Grc	136247	53363	FCAW	FC02	FC02							412	07-06-2021		
5742	031-T-01	ROOF REPAIR	UPPER DECK	RW U496	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	138333	53839	SA283Grc	512462	52847	FCAW	FC02	FC02							412	07-06-2021		
5743	031-T-01	ROOF REPAIR	UPPER DECK	RW U501	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136679	53533	SA283Grc	512469	52913	FCAW	FC02	FC02							412	07-06-2021		
5744	031-T-01	ROOF REPAIR	UPPER DECK	RW U502	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	136680	53533	SA283Grc	513145	53333	FCAW	FC02	FC02							412	07-06-2021		
5745	031-T-01	ROOF REPAIR	UPPER DECK	RW U503	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135929	53363	SA283Grc	513145	53333	FCAW	FC02	FC02							412	07-06-2021		
5746	031-T-01	ROOF REPAIR	UPPER DECK	RW U504	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135931	53363	SA283Grc	137936	53730	FCAW	FC02	FC02							412	07-06-2021		
5747	031-T-01	ROOF REPAIR	UPPER DECK	RW U505	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	135933	53363	SA283Grc	137946	53703	FCAW	FC02	FC02							412	07-06-2021		
5748	031-T-01	ROOF REPAIR	UPPER DECK	RW U508	5	1251-100-116-02-XX-D99-004	299	09-06-21	SA283Grc	138331	53836	SA283Grc	138327	53836	FCAW	FC02	FC02							412	07-06-2021		
5749	031-T-01	ROOF REPAIR	UPPER DECK	RW U510	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	138328	53836	SA283Grc	136270	53533	FCAW	FC02	FC02							412	07-06-2021		
5750	031-T-01	ROOF REPAIR	UPPER DECK	RW U511	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	136270	53533	SA283Grc	136679	53533	FCAW	FC02	FC02							412	07-06-2021		
5751	031-T-01	ROOF REPAIR	UPPER DECK	RW U512	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	136679	53533	SA283Grc	136680	53533	FCAW	FC05	FC05							412	07-06-2021		
5752	031-T-01	ROOF REPAIR	UPPER DECK	RW U514	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	135929	53363	SA283Grc	135931	53363	FCAW	FC05	FC05							412	07-06-2021		
5753	031-T-01	ROOF REPAIR	UPPER DECK	RW U515	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	135931	53363	SA283Grc	135933	53363	FCAW	FC05	FC05							412	07-06-2021		
5754	031-T-01	ROOF REPAIR	UPPER DECK	RW U517	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	136247	53363	SA283Grc	139086	53703	FCAW	FC05	FC05							412	07-06-2021		
5755	031-T-01	ROOF REPAIR	UPPER DECK	RW U518	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137930	53730	SA283Grc	138331	53836	FCAW	FC05	FC05							412	07-06-2021		
5756	031-T-01	ROOF REPAIR	UPPER DECK	RW U519	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137933	53730	SA283Grc	138327	53836	FCAW	FC05	FC05							412	07-06-2021		
5757	031-T-01	ROOF REPAIR	UPPER DECK	RW U525	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137950	53703	SA283Grc	135931	53363	FCAW	FC05	FC05							412	07-06-2021		
5758	031-T-01	ROOF REPAIR	UPPER DECK	RW U526	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137946	53703	SA283Grc	135933	53363	FCAW	FC05	FC05							412	07-06-2021		
5759	031-T-01	ROOF REPAIR	UPPER DECK	RW U527	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	139080	53703	SA283Grc	136247	53363	FCAW	FC05	FC05							412	07-06-2021		
5760	031-T-01	ROOF REPAIR	UPPER DECK	RW U529	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137950	53703	SA283Grc	137933	53730	FCAW	FC12	FC12							412	07-06-2021		
5761	031-T-01	ROOF REPAIR	UPPER DECK	RW U530	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	135929	53363	SA283Grc	137931	53730	FCAW	FC12	FC12							412	07-06-2021		
5762	031-T-01	ROOF REPAIR	UPPER DECK	RW U532	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	13533	53363	SA283Grc	137946	53703	FCAW	FC12	FC12							412	07-06-2021		
5763	031-T-01	ROOF REPAIR	UPPER DECK	RW U533	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	136247	53363	SA283Grc	139084	53703	FCAW	FC12	FC12							413	08-06-2021		
5764	031-T-01	ROOF REPAIR	UPPER DECK	RW U534	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	138327	53836	SA283Grc	139086	53703	FCAW	FC12	FC12							413	08-06-2021		
5765	031-T-01	ROOF REPAIR	UPPER DECK	RW U535	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	138328	53836	SA283Grc	137950	53703	FCAW	FC12	FC12							413	08-06-2021		
5766	031-T-01	ROOF REPAIR	UPPER DECK	RW U540	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	135931	53363	SA283Grc	135929	53363	FCAW	FC12	FC12							413	08-06-2021		
5767	031-T-01	ROOF REPAIR	UPPER DECK	RW U541	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	135933	53363	SA283Grc	135931	53363	FCAW	FC12	FC12							413	08-06-2021		
5768	031-T-01	ROOF REPAIR	UPPER DECK	RW U543	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137930	53730	SA283Grc	136247	53363	FCAW	FC12	FC12							413	08-06-2021		
5769	031-T-01	ROOF REPAIR	UPPER DECK	RW U544	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137933	53730	SA283Grc	512727	53166	FCAW	FC12	FC12							413	08-06-2021		
5770	031-T-01	ROOF REPAIR	UPPER DECK	RW U545	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137931	53730	SA283Grc	512727	53166	FCAW	FC12	FC12							413	08-06-2021		
5771	031-T-01	ROOF REPAIR	UPPER DECK	RW U547	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	137946	53703	SA283Grc	512727	53166	FCAW	FC12	FC12							413	08-06-2021		
5772	031-T-01	ROOF REPAIR	UPPER DECK	RW U548	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	139084	53703	SA283Grc	512727	53166	FCAW	FC12	FC12							413	08-06-2021		
5773	031-T-01	ROOF REPAIR	UPPER DECK	RW U549	5	1251-100-116-02-XX-D99-004	300	10-06-21	SA283Grc	139086	53703	SA283Grc	512601	53127	FCAW	FC12	FC12							413	08-06-2021		
5774	031-T-01	ROOF REPAIR	UPPER DECK	RW U553	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	139084	53703	SA283Grc	512727	53166	FCAW	FC12	FC12							413	08-06-2021		

Sr. No	RT Report						UT		MT				PT				Vacuum Test				Leak Test		Peaking				Banding				Plumbness				Roundness	
									Inside		Outside		Inside		Outside		Root		Cap				Before		After		Before		After		Before		After			
	SHOOT NO	ACC.	REJ.	R/S	Defect-location	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	Visual Inspection – VIS No	Visual Inspection – Date	Leak Test – Report No.	Leak Test – Date
5775	031-T-01	ROOF REPAIR	UPPER DECK	RW U554	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	137950	53703	SA283Grc	512727	53166	FCAW	FC12	FC12	413	08-06-2021		
5776	031-T-01	ROOF REPAIR	UPPER DECK	RW U555	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	135929	53363	SA283Grc	512727	53166	FCAW	FC12	FC12	413	08-06-2021		
5777	031-T-01	ROOF REPAIR	UPPER DECK	RW U556	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	135931	53363	SA283Grc	512727	53166	FCAW	FC12	FC12	413	08-06-2021		
5778	031-T-01	ROOF REPAIR	UPPER DECK	RW U560	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	135931	53363	SA283Grc	512727	53166	FCAW	FC11	FC11	413	08-06-2021		
5779	031-T-01	ROOF REPAIR	UPPER DECK	RW U561	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	135933	53363	SA283Grc	512727	53166	FCAW	FC11	FC11	413	08-06-2021		
5780	031-T-01	ROOF REPAIR	UPPER DECK	RW U563	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	136246	53363	SA283Grc	512727	53166	FCAW	FC11	FC11	413	08-06-2021		
5781	031-T-01	ROOF REPAIR	UPPER DECK	RW U564	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512466	52903	SA283Grc	512727	53166	FCAW	FC11	FC11	413	08-06-2021		
5782	031-T-01	ROOF REPAIR	UPPER DECK	RW U566	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512462	52847	SA283Grc	512726	53166	FCAW	FC11	FC11	413	08-06-2021		
5783	031-T-01	ROOF REPAIR	UPPER DECK	RW U567	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512469	52847	SA283Grc	512550	52951	FCAW	FC11	FC11	413	08-06-2021		
5784	031-T-01	ROOF REPAIR	UPPER DECK	RW U568	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512727	53166	SA283Grc	512550	52951	FCAW	FC11	FC11	413	08-06-2021		
5785	031-T-01	ROOF REPAIR	UPPER DECK	RW U571	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512469	52913	SA283Grc	512550	52951	FCAW	FC11	FC11	413	08-06-2021		
5786	031-T-01	ROOF REPAIR	UPPER DECK	RW U572	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	513145	53333	SA283Grc	512727	53166	FCAW	FC02	FC02	413	08-06-2021		
5787	031-T-01	ROOF REPAIR	UPPER DECK	RW U573	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	513145	53333	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021		
5788	031-T-01	ROOF REPAIR	UPPER DECK	RW U576	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	138333	53839	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021		
5789	031-T-01	ROOF REPAIR	UPPER DECK	RW U577	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	138327	137933	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021		
5790	031-T-01	ROOF REPAIR	UPPER DECK	RW U578	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	138328	137931	SA283Grc	512469	52847	FCAW	FC02	FC02	414	08-06-2021		
5791	031-T-01	ROOF REPAIR	UPPER DECK	RW U580	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	136679	137946	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021		
5792	031-T-01	ROOF REPAIR	UPPER DECK	RW U581	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	136680	139084	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021		
5793	031-T-01	ROOF REPAIR	UPPER DECK	RW U582	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	136246	53333	SA283Grc	512469	52847	FCAW	FC02	FC02	414	08-06-2021		
5794	031-T-01	ROOF REPAIR	UPPER DECK	RW U583	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	138331	53730	SA283Grc	512726	53166	FCAW	FC02	FC02	414	08-06-2021		
5795	031-T-01	ROOF REPAIR	LOWER DECK	RW L32	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5796	031-T-01	ROOF REPAIR	LOWER DECK	RW L33	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512550	52951	SA283Grc	512550	52951	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5797	031-T-01	ROOF REPAIR	LOWER DECK	RW L35	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512727	53166	SA283Grc	136246	53333	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5798	031-T-01	ROOF REPAIR	LOWER DECK	RW L40	5	1251-100-116-02-XX-D99-004	301	11-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5799	031-T-01	ROOF REPAIR	LOWER DECK	RW L41	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	513457	53703	SA283Grc	513454	53703	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5800	031-T-01	ROOF REPAIR	LOWER DECK	RW L42	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5801	031-T-01	ROOF REPAIR	LOWER DECK	RW L47	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513457	53703	SA283Grc	512548	52951	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5802	031-T-01	ROOF REPAIR	LOWER DECK	RW L48	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513454	53703	SA283Grc	512466	52903	FCAW	FC02	FC02	414	08-06-2021	2	25-6-2021
5803	031-T-01	ROOF REPAIR	LOWER DECK	RW L49	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20	414	08-06-2021	2	25-6-2021
5804	031-T-01	ROOF REPAIR	LOWER DECK	RW L53	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512548	52951	SA283Grc	513457	53703	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021
5805	031-T-01	ROOF REPAIR	LOWER DECK	RW L54	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021
5806	031-T-01	ROOF REPAIR	LOWER DECK	RW L55	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021
5807	031-T-01	ROOF REPAIR	LOWER DECK	RW L56	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021
5808	031-T-01	ROOF REPAIR	LOWER DECK	RW L57	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512548	52951	SA283Grc	512548	52951	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021
5809	031-T-01	ROOF REPAIR	LOWER DECK	RW L58	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC20	FC20	414	08-06-2021	3	25-6-2021

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	Visual Inspection – VIS No	Visual Inspection – Date	Visual Inspection – REP No.	Visual Inspection – Date	RT Report – SHOOT NO	RT Report – ACC	RT Report – REJ	RT Report – R/S	RT Report – Defect location	RT Report – Date	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
5810	031-T-01	ROOF REPAIR	LOWER DECK	RW L60	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513454	53703	SA283Grc	513454	53703	FCAW	FC20	FC20							414	08-06-2021																							3	25-6-2021														
5811	031-T-01	ROOF REPAIR	LOWER DECK	RW L61	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC20	FC20							415	08-06-2021																							3	25-6-2021														
5812	031-T-01	ROOF REPAIR	LOWER DECK	RW L62	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							415	08-06-2021																							3	25-6-2021														
5813	031-T-01	ROOF REPAIR	LOWER DECK	RW L75	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512469	52847	SA283Grc	512469	52847	FCAW	FC20	FC20							415	08-06-2021																							3	25-6-2021														
5814	031-T-01	ROOF REPAIR	LOWER DECK	RW L76	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC20	FC20							415	08-06-2021																							4	25-6-2021														
5815	031-T-01	ROOF REPAIR	LOWER DECK	RW L77	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							415	08-06-2021																							4	25-6-2021														
5816	031-T-01	ROOF REPAIR	LOWER DECK	RW L105	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512469	52847	SA283Grc	512469	52847	FCAW	FC20	FC20							415	08-06-2021																							5	25-6-2021														
5817	031-T-01	ROOF REPAIR	LOWER DECK	RW L106	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC20	FC20							415	08-06-2021																							5	25-6-2021														
5818	031-T-01	ROOF REPAIR	LOWER DECK	RW L107	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5819	031-T-01	ROOF REPAIR	LOWER DECK	RW L108	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5820	031-T-01	ROOF REPAIR	LOWER DECK	RW L113	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5821	031-T-01	ROOF REPAIR	LOWER DECK	RW L114	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	513561	53703	SA283Grc	513561	53703	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5822	031-T-01	ROOF REPAIR	LOWER DECK	RW L115	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5823	031-T-01	ROOF REPAIR	LOWER DECK	RW L116	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC12	FC12							415	08-06-2021																							5	25-6-2021														
5824	031-T-01	ROOF REPAIR	LOWER DECK	RW L154	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5825	031-T-01	ROOF REPAIR	LOWER DECK	RW L155	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5826	031-T-01	ROOF REPAIR	LOWER DECK	RW L156	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5827	031-T-01	ROOF REPAIR	LOWER DECK	RW L157	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5828	031-T-01	ROOF REPAIR	LOWER DECK	RW L163	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5829	031-T-01	ROOF REPAIR	LOWER DECK	RW L164	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5830	031-T-01	ROOF REPAIR	LOWER DECK	RW L165	5	1251-100-116-02-XX-D99-004	302	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							415	08-06-2021																							7	25-6-2021														
5831	031-T-01	ROOF REPAIR	LOWER DECK	RW L166	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC05	FC05							415	08-06-2021																							7	25-6-2021														
5832	031-T-01	ROOF REPAIR	LOWER DECK	RW L168	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC05	FC05							415	08-06-2021																							7	25-6-2021														
5833	031-T-01	ROOF REPAIR	LOWER DECK	RW L169	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC05	FC05							415	08-06-2021																							7	25-6-2021														
5834	031-T-01	ROOF REPAIR	LOWER DECK	RW L170	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC05	FC05							415	08-06-2021																							7	25-6-2021														
5835	031-T-01	ROOF REPAIR	LOWER DECK	RW L178	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5836	031-T-01	ROOF REPAIR	LOWER DECK	RW L179	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5837	031-T-01	ROOF REPAIR	LOWER DECK	RW L187	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5838	031-T-01	ROOF REPAIR	LOWER DECK	RW L188	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5839	031-T-01	ROOF REPAIR	LOWER DECK	RW L197	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5840	031-T-01	ROOF REPAIR	LOWER DECK	RW L198	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC05	FC05							416	09-06-2021																							8	25-6-2021														
5841	031-T-01	ROOF REPAIR	LOWER DECK	RW L205	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512722	53114	SA283Grc	512722	53114	FCAW	FC05	FC05							416	09-06-2021																							9	25-6-2021														
5842	031-T-01	ROOF REPAIR	LOWER DECK	RW L206	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5843	031-T-01	ROOF REPAIR	LOWER DECK	RW L207	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512548	52951	SA283Grc	512548	52951	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5844	031-T-01	ROOF REPAIR	LOWER DECK	RW L214	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512721	53114	SA283Grc	512721	53114	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														

Sr. No	Tank No.	Part	Rem Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	VISUAL INSPECTION: VIS No	VISUAL INSPECTION: Date	VISUAL INSPECTION: REP No.	VISUAL INSPECTION: Date	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
5845	031-T-01	ROOF REPAIR	LOWER DECK	RW L215	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512721	53114	SA283Grc	512721	53114	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5846	031-T-01	ROOF REPAIR	LOWER DECK	RW L216	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512721	53114	SA283Grc	512721	53114	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5847	031-T-01	ROOF REPAIR	LOWER DECK	RW L217	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5848	031-T-01	ROOF REPAIR	LOWER DECK	RW L223	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5849	031-T-01	ROOF REPAIR	LOWER DECK	RW L224	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC11	FC11							416	09-06-2021																							9	25-6-2021														
5850	031-T-01	ROOF REPAIR	LOWER DECK	RW L225	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC11	FC11							416	09-06-2021																							10	25-6-2021														
5851	031-T-01	ROOF REPAIR	LOWER DECK	RW L233	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC11	FC11							416	09-06-2021																							10	25-6-2021														
5852	031-T-01	ROOF REPAIR	LOWER DECK	RW L234	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC11	FC11							416	09-06-2021																							10	25-6-2021														
5853	031-T-01	ROOF REPAIR	LOWER DECK	RW L235	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512720	53114	SA283Grc	512720	53114	FCAW	FC11	FC11							416	09-06-2021																							10	25-6-2021														
5854	031-T-01	ROOF REPAIR	LOWER DECK	RW L257	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC11	FC11							416	09-06-2021																							11	25-6-2021														
5855	031-T-01	ROOF REPAIR	LOWER DECK	RW L258	5	1251-100-116-02-XX-D99-004	303	12-06-21	SA283Grc	513562	53703	SA283Grc	513562	53703	FCAW	FC11	FC11							416	09-06-2021																							11	25-6-2021														
5856	031-T-01	ROOF REPAIR	LOWER DECK	RW L259	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC20	FC20							416	09-06-2021																							11	25-6-2021														
5857	031-T-01	ROOF REPAIR	LOWER DECK	RW L260	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC20	FC20							416	09-06-2021																							11	25-6-2021														
5858	031-T-01	ROOF REPAIR	LOWER DECK	RW L261	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC20	FC20							416	09-06-2021																							11	25-6-2021														
5859	031-T-01	ROOF REPAIR	LOWER DECK	RW L262	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5860	031-T-01	ROOF REPAIR	LOWER DECK	RW L263	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5861	031-T-01	ROOF REPAIR	LOWER DECK	RW L268	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5862	031-T-01	ROOF REPAIR	LOWER DECK	RW L269	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5863	031-T-01	ROOF REPAIR	LOWER DECK	RW L270	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5864	031-T-01	ROOF REPAIR	LOWER DECK	RW L271	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5865	031-T-01	ROOF REPAIR	LOWER DECK	RW L272	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53166	FCAW	FC20	FC20							417	09-06-2021																							11	25-6-2021														
5866	031-T-01	ROOF REPAIR	LOWER DECK	RW L273	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512722	53127	SA283Grc	512726	53127	FCAW	FC02	FC02							417	09-06-2021																							11	25-6-2021														
5867	031-T-01	ROOF REPAIR	LOWER DECK	RW L274	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC02	FC02							417	09-06-2021																							11	25-6-2021														
5868	031-T-01	ROOF REPAIR	LOWER DECK	RW L275	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5869	031-T-01	ROOF REPAIR	LOWER DECK	RW L276	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5870	031-T-01	ROOF REPAIR	LOWER DECK	RW L277	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	513456	53703	SA283Grc	513456	53703	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5871	031-T-01	ROOF REPAIR	LOWER DECK	RW L278	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5872	031-T-01	ROOF REPAIR	LOWER DECK	RW L280	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5873	031-T-01	ROOF REPAIR	LOWER DECK	RW L281	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5874	031-T-01	ROOF REPAIR	LOWER DECK	RW L282	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5875	031-T-01	ROOF REPAIR	LOWER DECK	RW L283	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53166	SA283Grc	512602	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5876	031-T-01	ROOF REPAIR	LOWER DECK	RW L284	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512720	53114	SA283Grc	512601	53127	FCAW	FC02	FC02							417	09-06-2021																							12	25-6-2021														
5877	031-T-01	ROOF REPAIR	LOWER DECK	RW L285	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							417	09-06-2021																							12	25-6-2021														
5878	031-T-01	ROOF REPAIR	LOWER DECK	RW L286	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC12	FC12							417	09-06-2021																							12	25-6-2021														
5879	031-T-01	ROOF REPAIR	LOWER DECK	RW L287	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512720	53114	SA283Grc	512720	53114	FCAW	FC12	FC12							417	09-06-2021																							12	25-6-2021														

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date
5880	031-T-01	ROOF REPAIR	LOWER DECK	RW L288	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512720	53114	SA283Grc	512720	53114	FCAW	FC12	FC12							417	09-06-2021		
5881	031-T-01	ROOF REPAIR	LOWER DECK	RW L289	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512720	53114	SA283Grc	512720	53114	FCAW	FC12	FC12							417	09-06-2021		
5882	031-T-01	ROOF REPAIR	LOWER DECK	RW L290	5	1251-100-116-02-XX-D99-004	304	13-06-21	SA283Grc	512720	53114	SA283Grc	512720	53114	FCAW	FC12	FC12							417	09-06-2021		
5883	031-T-01	ROOF REPAIR	LOWER DECK	RW L291	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5884	031-T-01	ROOF REPAIR	LOWER DECK	RW L292	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC12	FC12							418	09-06-2021		
5885	031-T-01	ROOF REPAIR	LOWER DECK	RW L293	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53166	SA283Grc	512720	53114	FCAW	FC12	FC12							418	09-06-2021		
5886	031-T-01	ROOF REPAIR	LOWER DECK	RW L294	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512720	53114	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5887	031-T-01	ROOF REPAIR	LOWER DECK	RW L295	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							418	09-06-2021		
5888	031-T-01	ROOF REPAIR	LOWER DECK	RW L296	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							418	09-06-2021		
5889	031-T-01	ROOF REPAIR	LOWER DECK	RW L297	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5890	031-T-01	ROOF REPAIR	LOWER DECK	RW L298	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5891	031-T-01	ROOF REPAIR	LOWER DECK	RW L299	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5892	031-T-01	ROOF REPAIR	LOWER DECK	RW L300	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5893	031-T-01	ROOF REPAIR	LOWER DECK	RW L301	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5894	031-T-01	ROOF REPAIR	LOWER DECK	RW L302	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC12	FC12							418	09-06-2021		
5895	031-T-01	ROOF REPAIR	LOWER DECK	RW L303	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC12	FC12							418	09-06-2021		
5896	031-T-01	ROOF REPAIR	LOWER DECK	RW L304	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5897	031-T-01	ROOF REPAIR	LOWER DECK	RW L305	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5898	031-T-01	ROOF REPAIR	LOWER DECK	RW L306	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							418	09-06-2021		
5899	031-T-01	ROOF REPAIR	LOWER DECK	RW L307	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5900	031-T-01	ROOF REPAIR	LOWER DECK	RW L308	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5901	031-T-01	ROOF REPAIR	LOWER DECK	RW L309	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5902	031-T-01	ROOF REPAIR	LOWER DECK	RW L310	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							418	09-06-2021		
5903	031-T-01	ROOF REPAIR	LOWER DECK	RW L311	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							418	09-06-2021		
5904	031-T-01	ROOF REPAIR	LOWER DECK	RW L312	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512550	52951	SA283Grc	512550	52951	FCAW	FC12	FC12							418	09-06-2021		
5905	031-T-01	ROOF REPAIR	LOWER DECK	RW L313	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC12	FC12							418	09-06-2021		
5906	031-T-01	ROOF REPAIR	LOWER DECK	RW L314	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	513457	53703	FCAW	FC12	FC12							418	09-06-2021		
5907	031-T-01	ROOF REPAIR	LOWER DECK	RW L315	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	513457	53703	SA283Grc	512498	52847	FCAW	FC12	FC12							419	10-06-2021		
5908	031-T-01	ROOF REPAIR	LOWER DECK	RW L320	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							419	10-06-2021		
5909	031-T-01	ROOF REPAIR	LOWER DECK	RW L321	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							419	10-06-2021		
5910	031-T-01	ROOF REPAIR	LOWER DECK	RW L322	5	1251-100-116-02-XX-D99-004	305	13-06-21	SA283Grc	512550	52951	SA283Grc	512550	52951	FCAW	FC12	FC12							419	10-06-2021		
5911	031-T-01	ROOF REPAIR	LOWER DECK	RW L323	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC12	FC12							419	10-06-2021		
5912	031-T-01	ROOF REPAIR	LOWER DECK	RW L324	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512498	52847	SA283Grc	512498	52847	FCAW	FC12	FC12							419	10-06-2021		
5913	031-T-01	ROOF REPAIR	LOWER DECK	RW L327	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							419	10-06-2021		
5914	031-T-01	ROOF REPAIR	LOWER DECK	RW L328	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							419	10-06-2021		

Sr. No	RT Report – SHOOT NO	RT – ACC.	RT – REJ.	RT – R/S	RT – Defect location	RT – Date	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
5880																					12	25-6-2021														
5881																					12	25-6-2021														
5882																					12	25-6-2021														
5883																					12	25-6-2021														
5884																					12	25-6-2021														
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5895																					13	25-6-2021														
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5901																					13	25-6-2021														
5902																					13	25-6-2021														
5903																					13	25-6-2021														
5904																					13	25-6-2021														
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5910																					13	25-6-2021														
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5912																					13	25-6-2021														
5913																					14	25-6-2021														
5914																					14	25-6-2021														

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date	RT Report – SHOOT NO	RT Report – ACC.	RT Report – REJ.	RT Report – R/S	RT Report – Defect location	RT Report – Date	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
5915	031-T-01	ROOF REPAIR	LOWER DECK	RW L329	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC12	FC12							419	10-06-2021																							14	25-6-2021														
5916	031-T-01	ROOF REPAIR	LOWER DECK	RW L331	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC12	FC12							419	10-06-2021																							14	25-6-2021														
5917	031-T-01	ROOF REPAIR	LOWER DECK	RW L332	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512550	52951	SA283Grc	512550	52951	FCAW	FC12	FC12							419	10-06-2021																							14	25-6-2021														
5918	031-T-01	ROOF REPAIR	LOWER DECK	RW L337	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC12	FC12							419	10-06-2021																							14	25-6-2021														
5919	031-T-01	ROOF REPAIR	LOWER DECK	RW L338	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							419	10-06-2021																							14	25-6-2021														
5920	031-T-01	ROOF REPAIR	LOWER DECK	RW L339	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC11	FC11							419	10-06-2021																							14	25-6-2021														
5921	031-T-01	ROOF REPAIR	LOWER DECK	RW L340	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC11	FC11							419	10-06-2021																							14	25-6-2021														
5922	031-T-01	ROOF REPAIR	LOWER DECK	RW L351	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	513456	53730	SA283Grc	513456	53730	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5923	031-T-01	ROOF REPAIR	LOWER DECK	RW L352	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	513561	53703	SA283Grc	513561	53703	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5924	031-T-01	ROOF REPAIR	LOWER DECK	RW L353	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512602	53127	SA283Grc	512602	53127	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5925	031-T-01	ROOF REPAIR	LOWER DECK	RW L361	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5926	031-T-01	ROOF REPAIR	LOWER DECK	RW L362	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5927	031-T-01	ROOF REPAIR	LOWER DECK	RW L363	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5928	031-T-01	ROOF REPAIR	LOWER DECK	RW L364	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5929	031-T-01	ROOF REPAIR	LOWER DECK	RW L374	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							419	10-06-2021																							15	25-6-2021														
5930	031-T-01	ROOF REPAIR	LOWER DECK	RW L375	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC11	FC11							419	10-06-2021																							16	25-6-2021														
5931	031-T-01	ROOF REPAIR	LOWER DECK	RW L376	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC11	FC11							420	10-06-2021																							16	25-6-2021														
5932	031-T-01	ROOF REPAIR	LOWER DECK	RW L382	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							420	10-06-2021																							16	25-6-2021														
5933	031-T-01	ROOF REPAIR	LOWER DECK	RW L383	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							420	10-06-2021																							16	25-6-2021														
5934	031-T-01	ROOF REPAIR	LOWER DECK	RW L385	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC11	FC11							420	10-06-2021																							16	25-6-2021														
5935	031-T-01	ROOF REPAIR	LOWER DECK	RW L386	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5936	031-T-01	ROOF REPAIR	LOWER DECK	RW L387	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	513561	53703	SA283Grc	513561	53703	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5937	031-T-01	ROOF REPAIR	LOWER DECK	RW L388	5	1251-100-116-02-XX-D99-004	306	14-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5938	031-T-01	ROOF REPAIR	LOWER DECK	RW L390	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5939	031-T-01	ROOF REPAIR	LOWER DECK	RW L391	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5940	031-T-01	ROOF REPAIR	LOWER DECK	RW L392	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5941	031-T-01	ROOF REPAIR	LOWER DECK	RW L393	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512728	53127	SA283Grc	512728	53127	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5942	031-T-01	ROOF REPAIR	LOWER DECK	RW L395	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5943	031-T-01	ROOF REPAIR	LOWER DECK	RW L396	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5944	031-T-01	ROOF REPAIR	LOWER DECK	RW L397	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512728	53127	SA283Grc	512728	53127	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5945	031-T-01	ROOF REPAIR	LOWER DECK	RW L398	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC02	FC02							420	10-06-2021																							16	25-6-2021														
5946	031-T-01	ROOF REPAIR	LOWER DECK	RW L401	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512601	53127	SA283Grc	512601	53127	FCAW	FC02	FC02							420	10-06-2021																							17	25-6-2021														
5947	031-T-01	ROOF REPAIR	LOWER DECK	RW L402	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513457	53703	SA283Grc	513457	53703	FCAW	FC02	FC02							420	10-06-2021																							17	25-6-2021														
5948	031-T-01	ROOF REPAIR	LOWER DECK	RW L404	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC02	FC02							420	10-06-2021																							17	25-6-2021														
5949	031-T-01	ROOF REPAIR	LOWER DECK	RW L405	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC02	FC02							420	10-06-2021																							17	25-6-2021														

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report - Report No	Material Traceability Report - Date	A - Classification	A - Heat No.	A - Certificate No.	B - Classification	B - Heat No.	B - Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable - Class	Consumable - Batch No.	Consumable - Size	Heat Treatment - Report No	Heat Treatment - Date	VISUAL INSPECTION - VIS No	VISUAL INSPECTION - Date	VISUAL INSPECTION - REP No.	VISUAL INSPECTION - Date	RT Report - SHOOT NO	RT Report - ACC	RT Report - REJ	RT Report - R/S	RT Report - Defect location	RT Report - Date	UT - Report No.	UT - Date	MT Inside - Report No.	MT Inside - Date	MT Outside - Report No.	MT Outside - Date	PT Inside - Report No.	PT Inside - Date	PT Outside - Report No.	PT Outside - Date	Vacuum Test Root - Report No.	Vacuum Test Root - Date	Vacuum Test Cap - Report No.	Vacuum Test Cap - Date	Leak Test - Report No.	Leak Test - Date	Peaking Before - Report No.	Peaking Before - Date	Peaking After - Report No.	Peaking After - Date	Banding Before - Report No.	Banding Before - Date	Banding After - Report No.	Banding After - Date	Plumbness Before - Report No.	Plumbness Before - Date	Plumbness After - Report No.	Plumbness After - Date	Roundness - Report No.	Roundness - Date
5950	031-T-01	ROOF REPAIR	LOWER DECK	RW L406	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC02	FC02							420	10-06-2021																							17	25-6-2021														
5951	031-T-01	ROOF REPAIR	LOWER DECK	RW L407	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512722	53127	SA283Grc	512722	53127	FCAW	FC05	FC05							420	10-06-2021																							17	25-6-2021														
5952	031-T-01	ROOF REPAIR	LOWER DECK	RW L409	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC05	FC05							420	10-06-2021																							17	25-6-2021														
5953	031-T-01	ROOF REPAIR	LOWER DECK	RW L412	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513457	53703	SA283Grc	512728	53166	FCAW	FC05	FC05							420	10-06-2021																							17	25-6-2021														
5954	031-T-01	ROOF REPAIR	LOWER DECK	RW L419	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513456	53703	SA283Grc	513457	53703	FCAW	FC05	FC05							420	10-06-2021																							17	25-6-2021														
5955	031-T-01	ROOF REPAIR	LOWER DECK	RW L420	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC05	FC05							421	10-06-2021																							17	25-6-2021														
5956	031-T-01	ROOF REPAIR	LOWER DECK	RW L421	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513457	53703	SA283Grc	513454	53703	FCAW	FC05	FC05							421	10-06-2021																							17	25-6-2021														
5957	031-T-01	ROOF REPAIR	LOWER DECK	RW L428	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512601	53127	SA283Grc	513454	53703	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5958	031-T-01	ROOF REPAIR	LOWER DECK	RW L429	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5959	031-T-01	ROOF REPAIR	LOWER DECK	RW L430	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513454	53703	SA283Grc	512466	52903	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5960	031-T-01	ROOF REPAIR	LOWER DECK	RW L434	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513561	53703	SA283Grc	513456	53703	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5961	031-T-01	ROOF REPAIR	LOWER DECK	RW L438	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513456	53703	SA283Grc	513562	53703	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5962	031-T-01	ROOF REPAIR	LOWER DECK	RW L439	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5963	031-T-01	ROOF REPAIR	LOWER DECK	RW L447	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513562	53703	SA283Grc	513456	53703	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5964	031-T-01	ROOF REPAIR	LOWER DECK	RW L448	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5965	031-T-01	ROOF REPAIR	LOWER DECK	RW L449	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513456	53703	SA283Grc	512728	53166	FCAW	FC05	FC05							421	10-06-2021																							18	25-6-2021														
5966	031-T-01	ROOF REPAIR	LOWER DECK	RW L450	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	513562	53703	SA283Grc	513561	53703	FCAW	FC05	FC05							421	10-06-2021																							19	25-6-2021														
5967	031-T-01	ROOF REPAIR	LOWER DECK	RW L451	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512728	53166	SA283Grc	513562	53703	FCAW	FC05	FC05							421	10-06-2021																							19	25-6-2021														
5968	031-T-01	ROOF REPAIR	LOWER DECK	RW L456	5	1251-100-116-02-XX-D99-004	307	14-06-21	SA283Grc	512465	52903	SA283Grc	512727	53166	FCAW	FC05	FC05							421	10-06-2021																							19	25-6-2021														
5969	031-T-01	ROOF REPAIR	LOWER DECK	RW L457	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5970	031-T-01	ROOF REPAIR	LOWER DECK	RW L458	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5971	031-T-01	ROOF REPAIR	LOWER DECK	RW L459	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5972	031-T-01	ROOF REPAIR	LOWER DECK	RW L461	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5973	031-T-01	ROOF REPAIR	LOWER DECK	RW L462	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512728	53166	SA283Grc	512728	53166	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5974	031-T-01	ROOF REPAIR	LOWER DECK	RW L463	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5975	031-T-01	ROOF REPAIR	LOWER DECK	RW L469	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5976	031-T-01	ROOF REPAIR	LOWER DECK	RW L470	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5977	031-T-01	ROOF REPAIR	LOWER DECK	RW L471	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC11	FC11							421	10-06-2021																							19	25-6-2021														
5978	031-T-01	ROOF REPAIR	LOWER DECK	RW L478	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							421	10-06-2021																							20	25-6-2021														
5979	031-T-01	ROOF REPAIR	LOWER DECK	RW L479	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53127	SA283Grc	512726	53127	FCAW	FC11	FC11							422	10-06-2021																							20	25-6-2021														
5980	031-T-01	ROOF REPAIR	LOWER DECK	RW L507	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC11	FC11							422	10-06-2021																							21	25-6-2021														
5981	031-T-01	ROOF REPAIR	LOWER DECK	RW L508	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC11	FC11							422	10-06-2021																							21	25-6-2021														
5982	031-T-01	ROOF REPAIR	LOWER DECK	RW L509	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC11	FC11							422	10-06-2021																							21	25-6-2021														
5983	031-T-01	ROOF REPAIR	LOWER DECK	RW L510	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC11	FC11							422	10-06-2021																							21	25-6-2021														
5984	031-T-01	ROOF REPAIR	LOWER DECK	RW L516	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512550	52951	SA283Grc	512550	52951	FCAW	FC11	FC11							422	10-06-2021																							21	25-6-2021														

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SUMMARY CONTROL SHEET FOR (031-TK-01)

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No.: 1	Welder No.: 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	Visual Inspection: VIS No	Visual Inspection: Date	Visual Inspection: REP No.	Visual Inspection: Date
4054	031-T-01	ROOF	RIM BULKHEAD	RW R1B1	5	1251-10011-116-02-XX-D99-002	229	12/6/2020	SA283Grc	512460	52914	SA283Grc	512462	52847	SMAW	SM20	SM23							441	21-Jun-21		
4055	031-T-01	ROOF	RIM BULKHEAD	RW R1B2	5	1251-10011-116-02-XX-D99-002	229	12/6/2020	SA283Grc	512727	53166	SA283Grc	513562	53703	SMAW	SM20	SM23							441	21-Jun-21		
4056	031-T-01	ROOF	RIM BULKHEAD	RW R1B3	5	1251-10011-116-02-XX-D99-002	229	12/6/2020	SA283Grc	513561	53703	SA283Grc	512726	53127	SMAW	SM20	SM23							441	21-Jun-21		
4057	031-T-01	ROOF	RIM BULKHEAD	RW R1B4	5	1251-10011-116-02-XX-D99-002	229	12/6/2020	SA283Grc	512726	53127	SA283Grc	512726	53127	SMAW	SM20	SM23							441	21-Jun-21		
4058	031-T-01	ROOF	RIM BULKHEAD	RW R1B5	5	1251-10011-116-02-XX-D99-002	229	12/6/2020	SA283Grc	512722	53127	SA283Grc	512722	53127	SMAW	SM20	SM23							441	21-Jun-21		
4059	031-T-01	ROOF	RIM BULKHEAD	RW R1B6	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	512722	53127	SA283Grc	512722	53127	SMAW	SM20	SM23							441	21-Jun-21		
4060	031-T-01	ROOF	RIM BULKHEAD	RW R1B7	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	512602	53127	SA283Grc	512722	53114	SMAW	SM20	SM23							441	21-Jun-21		
4061	031-T-01	ROOF	RIM BULKHEAD	RW R1B8	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	512602	53127	SA283Grc	512602	53127	SMAW	SM20	SM23							441	21-Jun-21		
4062	031-T-01	ROOF	RIM BULKHEAD	RW R1B9	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	512602	53127	SA283Grc	512466	52903	SMAW	SM20	SM23							441	21-Jun-21		
4063	031-T-01	ROOF	RIM BULKHEAD	RW R1B10	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	137946	53703	SA283Grc	512469	52913	SMAW	SM20	SM23							441	21-Jun-21		
4064	031-T-01	ROOF	RIM BULKHEAD	RW R1B11	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	139084	53703	SA283Grc	512469	52913	SMAW	SM20	SM23							441	21-Jun-21		
4065	031-T-01	ROOF	RIM BULKHEAD	RW R1B12	5	1251-10011-116-02-XX-D99-002	230	12/6/2020	SA283Grc	139086	53703	SA283Grc	513145	53333	SMAW	SM170	SM19							441	21-Jun-21		
4101	031-T-01	ROOF	RIM BULKHEAD	RW R2B1	5	1251-10011-116-02-XX-D99-002	231	12/6/2020	SA283Grc	136247	53363	SA283Grc	138331	53836	SMAW	SM25	SM05							441	21-Jun-21		
4139	031-T-01	ROOF	VERTICAL RIM	RW R1V1	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	513457	53703	SA283Grc	136247	53363	SMAW	AR26	AR91							440	21-Jun-21		
4140	031-T-01	ROOF	VERTICAL RIM	RW R1V2	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	513457	53703	SA283Grc	136247	53363	SMAW	AR26	AR91							440	21-Jun-21		
4141	031-T-01	ROOF	VERTICAL RIM	RW R1V3	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	513457	53703	SA283Grc	136247	53363	SMAW	AR26	AR91							440	21-Jun-21		
4142	031-T-01	ROOF	VERTICAL RIM	RW R1V4	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	513457	53703	SA283Grc	136247	53363	SMAW	AR26	AR91							440	21-Jun-21		
4143	031-T-01	ROOF	VERTICAL RIM	RW R1V5	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	139086	53703	SA283Grc	136680	53533	SMAW	AR26	AR91							440	21-Jun-21		
4144	031-T-01	ROOF	VERTICAL RIM	RW R1V6	5	1251-10011-116-02-XX-D99-002	232	12/6/2020	SA283Grc	137938	53730	SA283Grc	137930	53730	SMAW	AR26	AR91							440	21-Jun-21		
4145	031-T-01	ROOF	VERTICAL RIM	RW R1V7	5	1251-10011-116-02-XX-D99-002	233	12/7/2020	SA283Grc	137946	53703	SA283Grc	137933	53730	SMAW	AR26	AR91							440	21-Jun-21		
4146	031-T-01	ROOF	VERTICAL RIM	RW R1V8	5	1251-10011-116-02-XX-D99-002	233	12/7/2020	SA283Grc	139084	53703	SA283Grc	137931	53730	SMAW	AR26	AR91							440	21-Jun-21		
4147	031-T-01	ROOF	VERTICAL RIM	RW R1V9	5	1251-10011-116-02-XX-D99-002	233	12/7/2020	SA283Grc	138324	53836	SA283Grc	134650	53333	SMAW	AR26	AR91							440	21-Jun-21		
4148	031-T-01	ROOF	VERTICAL RIM	RW R1V10	5	1251-10011-116-02-XX-D99-002	233	12/7/2020	SA283Grc	133168	53839	SA283Grc	135136	53344	SMAW	AR38	AR25							440	21-Jun-21		
4184	031-T-01	ROOF	VERTICAL RIM	RW R2V1	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	4061	53056214	SA283Grc	100264-4	56869472	SMAW	SM15	SM33							440	21-Jun-21		
4185	031-T-01	ROOF	VERTICAL RIM	RW R2V2	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	198085-4	56618259	SA283Grc	198085-4	56618259	SMAW	SM67	SM67							440	21-Jun-21		
4186	031-T-01	ROOF	VERTICAL RIM	RW R2V3	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	198085-4	56618259	SA283Grc	396910-4	56460116	SMAW	SM67	SM67							440	21-Jun-21		
4187	031-T-01	ROOF	VERTICAL RIM	RW R2V4	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	396911-4	56159536	SA283Grc	298737-4	56737547	SMAW	SM67	SM33							440	21-Jun-21		
4188	031-T-01	ROOF	VERTICAL RIM	RW R2V5	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	298737-4	56737547	SA283Grc	4081	56965205	SMAW	SM67	SM67							440	21-Jun-21		
4189	031-T-01	ROOF	VERTICAL RIM	RW R2V6	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	4089	53166781	SA283Grc	3735	56743461	SMAW	SM67	SM67							440	21-Jun-21		
4190	031-T-01	ROOF	VERTICAL RIM	RW R2V7	5	1251-10011-116-02-XX-D99-002	234	12/7/2020	SA283Grc	3735	59921064	SA283Grc	198141-4	62913470	SMAW	SM67	SM67							440	21-Jun-21		
4310	031-T-01	ROOF	LOWERDECK /RI	RW RL1	5	1251-10011-116-02-XX-D99-002	239	12/8/2020	SA283Grc	138331	53836	SA283Grc	136247	53363	SMAW	AR26	AR91							441	21-Jun-21		
4311	031-T-01	ROOF	LOWERDECK /RI	RW RL2	5	1251-10011-116-02-XX-D99-002	239	12/8/2020	SA283Grc	138331	53836	SA283Grc	512462	52847	SMAW	SM16	SM05							441	21-Jun-21		
4322	031-T-01	ROOF	RIM RAFTER JOIN	RW R1R	5	1251-10011-116-02-XX-D99-002	239	12/8/2020	SA283Grc	137930	53730	SA283Grc	138333	53839	SMAW	AR26	AR91							441	21-Jun-21		
4444	031-T-01	AMPLE CONNECTIO	N8	RW N8W1	2"	1251-100-116-02-XX-D01-039	275	12/16/2020	A106 GR B	996875		A105	19/45623		SMAW	PS8	PS8							430	15-Jun-21		

Sr. No	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
4054															22	25/6/2021																				
4055															22	25/6/2021																				
4056															22	25/6/2021																				
4057															22	25/6/2021																				
4058															22	25/6/2021																				
4059															22	25/6/2021																				
4060															22	25/6/2021																				
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4062															22	25/6/2021																				
4063															22	25/6/2021																				
4064															22	25/6/2021																				
4065															22	25/6/2021																				
4101															22	25/6/2021																				
4139															22	25/6/2021																				
4140															22	25/6/2021																				
4141															23	25/6/2021																				
4142															23	25/6/2021																				
4143															23	25/6/2021																				
4144															23	25/6/2021																				
4145															23	25/6/2021																				
4146															23	25/6/2021																				
4147															23	25/6/2021																				
4148	1														23	25/6/2021																				
4184															23	25/6/2021																				
4185															23	25/6/2021																				
4186															23	25/6/2021																				
4187															23	25/6/2021																				
4188															23	25/6/2021																				
4189															23	25/6/2021																				
4190															23	25/6/2021																				
4310															23	25/6/2021					25	10-Dec														
4311															23	25/6/2021					25	10-Dec														
4322															23	25/6/2021																				
4444																					3	12/11/2020														

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date
4445	031-T-01	AMPLE CONNECTIO	N8	RW N8W2	2"	1251-100-116-02-XX-D01-039	275	12/16/2020	A106 GR B	996875		A106 GR B	996875		SMAW	P58	P58							430	15-Jun-21		
4446	031-T-01	AMPLE CONNECTIO	N8	RW N8W3	2"	1251-100-116-02-XX-D01-039	275	12/16/2020	A106 GR B	996875		A106 GR B	996875		SMAW	P58	P58							430	15-Jun-21		
4447	031-T-01	AMPLE CONNECTIO	N8	RW N8W4	2"	1251-100-116-02-XX-D01-039	275	12/16/2020	A106 GR B	996875		A106 GR B	996875		SMAW	P58	P58							430	15-Jun-21		
4448	031-T-01	AMPLE CONNECTIO	N8	RW N8W5	2"	1251-100-116-02-XX-D01-039	275	12/16/2020	A106 GR B	996875		A106 GR B	996875		SMAW	P58	P58							430	15-Jun-21		
4452	031-T-01	12" STILLINGWELL	N9	RWN9W1	12"	1251-100-116-02-XX-D01-038	275	12/16/2020	A106 GR B	1201166		A105	20/466358		SMAW	P60	P22							430	15-Jun-21		
4453	031-T-01	12" STILLINGWELL	N9	RWN9W2	12"	1251-100-116-02-XX-D01-038	275	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P60	P22							430	15-Jun-21		
4469	031-T-01	WATER DRAIN OFF	N10	RW N10W1	12"	1251-100-116-02-XX-D01-014	275	12/16/2020	A106 GR B	1201166		A105	20/466358		GTAW/SMAW	R35	P31							430	15-Jun-21		
4470	031-T-01	WATER DRAIN OFF	N10	RW N10W2	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31					10	12/10/2020	430	15-Jun-21		
4471	031-T-01	WATER DRAIN OFF	N10	RW N10W3	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31							430	15-Jun-21		
4472	031-T-01	WATER DRAIN OFF	N10	RW N10W4	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31							430	15-Jun-21		
4473	031-T-01	WATER DRAIN OFF	N10	RW N10W5	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31							430	15-Jun-21		
4474	031-T-01	WATER DRAIN OFF	N10	RW N10W6	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31							430	15-Jun-21		
4475	031-T-01	WATER DRAIN OFF	N10	RW N10W7	12"	1251-100-116-02-XX-D01-014	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		GTAW/SMAW	R35	P31					10	12/10/2020	430	15-Jun-21		
4479	031-T-01	MANUAL GAUGE	N11	RW N11W1	8"	1251-100-116-02-XX-D01-026	276	12/16/2020	A106 GR B	1201010		A105	20/4678		SMAW	P60	P12							430	15-Jun-21		
4488	031-T-01	OT. DRAW OFF SUM	N12	RW N12W1	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A105	20/466358		SMAW	P20	P31							431	16-Jun-21		
4489	031-T-01	OT. DRAW OFF SUM	N12	RW N12W2	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P37	P58					8	6/12/2020	431	16-Jun-21		
4490	031-T-01	OT. DRAW OFF SUM	N12	RW N12W3	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P105	P20					8	6/12/2020	431	16-Jun-21		
4491	031-T-01	OT. DRAW OFF SUM	N12	RW N12W4	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P37	P58							431	16-Jun-21		
4492	031-T-01	OT. DRAW OFF SUM	N12	RW N12W5	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P37	P58							431	16-Jun-21		
4493	031-T-01	OT. DRAW OFF SUM	N12	RW N12W6	12"	1251-100-116-02-XX-D01-016	276	12/16/2020	A106 GR B	1201166		A106 GR B	1201166		SMAW	P20	P31							431	16-Jun-21		
4500	031-T-01	2" STILLINGWELL	N13	RW N13W1	2"	1251-100-116-02-XX-D01-038	276	12/16/2020	A106 GR B	996875		A105	19/45623		SMAW	R35	R35							431	16-Jun-21		
4501	031-T-01	2" STILLINGWELL	N13	RW N13W2	2"	1251-100-116-02-XX-D01-038	276	12/16/2020	A106 GR B	996875		A106 GR B	996875		SMAW	R35	R35							431	16-Jun-21		
4690	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL1	8.56	01251-100-116-02-XX-D99-003	240	12/8/2020	A283GrC	71621603	20200306	A283GrC	71621603	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4691	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL2	8.56	01251-100-116-02-XX-D99-003	240	12/8/2020	A283GrC	71621503	20200306	A283GrC	71621503	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4692	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL3	8.56	01251-100-116-02-XX-D99-003	240	12/8/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4693	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL4	8.56	01251-100-116-02-XX-D99-003	240	12/8/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4694	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL5	8.56	01251-100-116-02-XX-D99-003	240	12/8/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4695	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL6	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4696	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL7	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71620003	20200306	A283GrC	71620003	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4697	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL8	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4698	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL9	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71620002	20200306	A283GrC	7166430	20200306	SMAW	SM03	SM03							434	18-Jun-21		
4699	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL10	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71984001	20200306	A283GrC	7166450	20200306	SMAW	SM145	SM145							434	18-Jun-21		
4700	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL11	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7162503	20200306	A283GrC	7166450	20200306	SMAW	SM145	SM145							434	18-Jun-21		
4701	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL12	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7162503	20200306	A283GrC	7166450	20200306	SMAW	SM145	SM145							434	18-Jun-21		
4702	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL13	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7162503	20200306	A283GrC	7166420	20200306	SMAW	SM145	SM145							434	18-Jun-21		

Sr. No	RT Report – SHOOT NO	RT Report – ACC.	RT Report – REJ.	RT Report – R/S	RT Report – Defect location	RT Report – Date	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
4445																					3	12/11/2020														
4446																					3	12/11/2020														
4447																					3	12/11/2020														
4448																					3	12/11/2020														
4452																																				
4453																																				
4469																																				
4470											44	15/6/2021																								
4471																																				
4472											44	15/6/2021																								
4473											44	15/6/2021																								
4474											44	15/6/2021																								
4475											44	15/6/2021																								
4479																																				
4488																																				
4489											44	15/6/2021									3	12/11/2020														
4490											44	15/6/2021									3	12/11/2020														
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report Report No	Date	A Classification	A Heat No.	A Certificate No.	B Classification	B Heat No.	B Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP BY	Consumable Class	Consumable Batch No	Consumable Size	Heat Treatment Report No	Heat Treatment Date	VISUAL INSPECTION VIS No	Date	REP No.	Date	RT Report SHOOT NO	ACC	REJ.	R/S	Defect location	Date	UT Report No.	Date	MT Inside Report No.	Date	MT Outside Report No.	Date	PT Inside Report No.	Date	PT Outside Report No.	Date	Vacuum Test Root Report No.	Date	Vacuum Test Cap Report No.	Date	Leak Test Report No.	Date	Peaking Before Report No.	Date	Peaking After Report No.	Date	Banding Before Report No.	Date	Banding After Report No.	Date	Plumbness Before Report No.	Date	Plumbness After Report No.	Date	Roundness Report No.	Date
4703	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL14	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71847402	20200306	A283GrC	7166420	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4704	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL15	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71783603	20200306	A283GrC	7166420	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4705	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL16	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7169403	20200306	A283GrC	7166450	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4706	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL17	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7169403	20200306	A283GrC	71620003	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4707	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL18	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	718891	20200306	A283GrC	18896	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4708	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL19	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	18896	20200306	A283GrC	718892	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4709	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL20	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	718892	20200306	A283GrC	718890	20200306	SMAW	SM145	SM145							434	18-Jun-21																																						
4710	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL21	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	718890	20200306	A283GrC	718893	20200306	SMAW	SM145	SM145							435	18-Jun-21																																						
4711	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL22	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	719850	20200306	A283GrC	718893	20200306	SMAW	SM145	SM145							435	18-Jun-21																																						
4712	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL23	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	720218	20200306	A283GrC	719850	20200306	SMAW	SM145	SM145							435	18-Jun-21																																						
4713	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL24	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	719349	20200306	A283GrC	720218	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4714	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL25	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	720217	20200306	A283GrC	719349	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4715	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL26	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	719349	20200306	A283GrC	720217	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4716	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL27	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71621503	20200306	A283GrC	71619302	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4717	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL28	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71620002	20200306	A283GrC	71620002	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4718	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL29	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	7162503	20200306	A283GrC	7162503	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4719	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL30	8.56	01251-100-116-02-XX-D99-003	241	12/9/2020	A283GrC	71620002	20200306	A283GrC	71620002	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4720	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL31	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71783603	20200306	A283GrC	71783603	20200306	SMAW	SM67	SM67							435	18-Jun-21																																						
4721	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL32	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71619903	20200306	A283GrC	71619903	20200306	SMAW	SM37	SM37							435	18-Jun-21																																						
4722	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL33	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71620002	20200306	A283GrC	71620002	20200306	SMAW	SM37	SM37							435	18-Jun-21																																						
4723	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL34	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71847402	20200306	A283GrC	71847402	20200306	SMAW	SM37	SM37							435	18-Jun-21																																						
4724	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL35	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM37	SM37							435	18-Jun-21																																						
4725	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL36	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71783401	20200306	A283GrC	71783401	20200306	SMAW	SM37	SM37							435	18-Jun-21																																						
4726	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL37	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM37	SM37							435	18-Jun-21																																						
4727	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL38	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM37	SM37							435	18-Jun-21																																						
4728	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL39	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM37	SM37							435	18-Jun-21																																						
4729	031-T-01	ROOF	ROOF SUPPORT LEG	RW R1SL40	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM05	SM05							435	18-Jun-21																																						
4766	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL1	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM05	SM05							436	19-Jun-21																																						
4767	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL2	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	1987301	20200305	A283GrC	71987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4768	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL3	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4769	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL4	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4770	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL5	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4771	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL6	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4772	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL7	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						
4773	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL8	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21																																						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	Visual Inspection – VIS No	Visual Inspection – Date	Visual Inspection – REP No.	Visual Inspection – Date
4774	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL9	8.56	01251-100-116-02-XX-D99-003	242	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21		
4775	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL10	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM10	SM10							436	19-Jun-21		
4776	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL11	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987306	20200305	A283GrC	1987305	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4777	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL12	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4778	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL13	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4779	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL14	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4780	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL15	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4781	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL16	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4782	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL17	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4783	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL18	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM18	SM18							436	19-Jun-21		
4784	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL19	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987404	20200305	A283GrC	71987501	20200305	SMAW	SM06	SM06							436	19-Jun-21		
4785	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL20	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							436	19-Jun-21		
4786	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL21	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4787	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL22	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4788	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL23	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4789	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL24	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4790	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL25	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4791	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL26	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4792	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL27	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM06	SM06							437	19-Jun-21		
4793	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL28	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987505	20200305	A283GrC	71987601	20200305	SMAW	SM12	SM12							437	19-Jun-21		
4794	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL29	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987603	20200305	A283GrC	71987605	20200305	SMAW	SM12	SM12							437	19-Jun-21		
4795	031-T-01	ROOF	ROOF SUPPORT LEG	RW R2SL30	8.56	01251-100-116-02-XX-D99-003	243	12/9/2020	A283GrC	71987603	20200305	A283GrC	71987605	20200305	SMAW	SM12	SM12							437	19-Jun-21		
4837	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL1	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM34	SM34							437	19-Jun-21		
4838	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL2	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM34	SM34							437	19-Jun-21		
4839	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL3	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM34	SM34							437	19-Jun-21		
4840	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL4	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM34	SM34							437	19-Jun-21		
4841	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL5	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM34	SM34							437	19-Jun-21		
4842	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL6	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM60	SM60							437	19-Jun-21		
4843	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL7	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM60	SM60							437	19-Jun-21		
4844	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL8	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783702	20200305	A283GrC	71783705	20200305	SMAW	SM60	SM60							437	19-Jun-21		
4845	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL9	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM60	SM60							437	19-Jun-21		
4846	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL10	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM60	SM60							437	19-Jun-21		
4847	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL11	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM60	SM60							438	19-Jun-21		
4848	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL12	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM60	SM60							438	19-Jun-21		
4849	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL13	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21		

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	VISUAL INSPECTION – VIS No	VISUAL INSPECTION – Date	VISUAL INSPECTION – REP No.	VISUAL INSPECTION – Date	RT Report – SHOOT NO	RT Report – ACC.	RT Report – REJ.	RT Report – R/S	RT Report – Defect-location	RT Report – Date	UT – Report No.	UT – Date	MT Inside – Report No.	MT Inside – Date	MT Outside – Report No.	MT Outside – Date	PT Inside – Report No.	PT Inside – Date	PT Outside – Report No.	PT Outside – Date	Vacuum Test Root – Report No.	Vacuum Test Root – Date	Vacuum Test Cap – Report No.	Vacuum Test Cap – Date	Leak Test – Report No.	Leak Test – Date	Peaking Before – Report No.	Peaking Before – Date	Peaking After – Report No.	Peaking After – Date	Banding Before – Report No.	Banding Before – Date	Banding After – Report No.	Banding After – Date	Plumbness Before – Report No.	Plumbness Before – Date	Plumbness After – Report No.	Plumbness After – Date	Roundness – Report No.	Roundness – Date
4850	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL14	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4851	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL15	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4852	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL16	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4853	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL17	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4854	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL18	8.56	01251-100-116-02-XX-D99-003	244	12/9/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4855	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL19	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4856	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL20	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4857	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL21	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM37	SM37							438	19-Jun-21																																						
4858	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL22	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4859	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL23	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4860	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL24	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4861	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL25	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4862	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL26	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4863	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL27	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4864	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL28	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4865	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL29	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM05	SM05							438	19-Jun-21																																						
4866	031-T-01	ROOF	ROOF SUPPORT LEG	RW R3SL30	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM08	SM08							438	19-Jun-21																																						
4893	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL1	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4894	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL2	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4895	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL3	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4896	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL4	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4897	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL5	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4898	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL6	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4899	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL7	8.56	01251-100-116-02-XX-D99-003	245	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4900	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL8	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71783801	20200305	A283GrC	71783806	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4901	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL9	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4902	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL10	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM148	SM148							439	20-Jun-21																																						
4903	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL11	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4904	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL12	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4905	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL13	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4906	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL14	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4907	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL15	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4908	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL16	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4909	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL17	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						
4910	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL18	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM08	SM08							439	20-Jun-21																																						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report		A			B			Welding Process	Welder No.		REP. BY	Consumable			Heat Treatment		VISUAL INSPECTION			
							Report No	Date	Classification	Heat No.	Certificate No.	Classification	Heat No.	Certificate No.		1	2		Class	Batch No.	Size	Report No	Date	VIS No	Date	REP No.	Date
4911	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL19	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM157	SM157							439	20-Jun-21		
4912	031-T-01	ROOF	ROOF SUPPORT LEG	RW R4SL20	8.56	01251-100-116-02-XX-D99-003	246	12/10/2020	A283GrC	71784003	20200305	A283GrC	71784007	20200305	SMAW	SM157	SM157							439	20-Jun-21		
5271	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG1	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	397993	16020104797	SMAW	SM03	SM05							429	15-Jun-21		
5272	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG2	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	397993	5041	SMAW	SM03	SM05							429	15-Jun-21		
5273	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG3	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	397993	16020104797	SMAW	SM148	SM145							429	15-Jun-21		
5274	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG4	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910088	14163	A283 GR.C	57040	1208056	SMAW	SM148	SM145							429	15-Jun-21		
5275	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG5	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910085	14163	A283 GR.C	57040	1208056	SMAW	SM148	SM145							429	15-Jun-21		
5276	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG6	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910086	16020104797	A283 GR.C	1910085	16020104797	SMAW	SM148	SM145							429	15-Jun-21		
5277	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG7	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910086	16020104797	A283 GR.C	397985	16020104797	SMAW	SM148	SM145							429	15-Jun-21		
5278	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG8	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	397985	16020104797	SMAW	SM148	SM145							429	15-Jun-21		
5279	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG9	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910085	16020104762	A283 GR.C	1910085	16020104797	SMAW	SM148	SM145							429	15-Jun-21		
5280	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG10	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910089	16020104762	A283 GR.C	1910089	16020104762	SMAW	SM90	SM30							429	15-Jun-21		
5281	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG11	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	28866	1208547	A283 GR.C	1910085	16020104762	SMAW	SM90	SM30							429	15-Jun-21		
5282	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG12	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	28866	1208547	A283 GR.C	2910087	16020104797	SMAW	SM90	SM30							429	15-Jun-21		
5283	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG13	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1909257	1602104797	A283 GR.C	1910085	14163	SMAW	SM90	SM30							429	15-Jun-21		
5284	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG14	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	2910087	1602104797	A283 GR.C	291002622	14163	SMAW	SM90	SM30							429	15-Jun-21		
5285	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG15	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1909257	1602104797	A283 GR.C	397993	14163	SMAW	SM90	SM30							429	15-Jun-21		
5286	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG16	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910085	1602104797	A283 GR.C	1910085	14163	SMAW	SM06	SM07							429	15-Jun-21		
5287	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG17	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	1910085	1602104797	A283 GR.C	1910088	5041	SMAW	SM06	SM07							429	15-Jun-21		
5288	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG18	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	397993	16020104797	A283 GR.C	1910085	5041	SMAW	SM06	SM07							429	15-Jun-21		
5289	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG19	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	397993	5041	A283 GR.C	1910085	5041	SMAW	SM06	SM07							429	15-Jun-21		
5290	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG20	20.9	01251-100-116-02-XX-D99-003	260	12/13/2020	ST44-2	397993	16020104797	A283 GR.C	2969	5041	SMAW	SM06	SM07							429	15-Jun-21		
5352	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG83	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5353	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG84	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5354	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG85	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5355	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG86	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5356	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG87	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5357	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG88	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5358	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG89	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM81	SM03							426	12-Jun-21		
5359	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG90	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM19	SM148							426	12-Jun-21		
5360	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG91	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM19	SM148							426	12-Jun-21		
5361	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG92	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM19	SM148							426	12-Jun-21		
5362	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG93	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM19	SM148							426	12-Jun-21		
5363	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG94	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM19	SM148							426	12-Jun-21		
5364	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG95	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21		

RT Report						UT		MT				PT				Vacuum Test				Leak Test		Peaking				Bending				Plumbness				Roundness	
								Inside		Outside		Inside		Outside		Root		Cap				Before		After		Before		After		Before		After			
SHOOT NO	ACC.	REJ.	R/S	Defect location	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date	Report No.	Date

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report - Report No	Material Traceability Report - Date	A - Classification	A - Heat No.	A - Certificate No.	B - Classification	B - Heat No.	B - Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable - Class.	Consumable - Batch No.	Consumable - Size	Heat Treatment - Report No	Heat Treatment - Date	VISUAL INSPECTION - VIS No	VISUAL INSPECTION - Date	VISUAL INSPECTION - REP No.	VISUAL INSPECTION - Date	RT Report - SHOOT NO	RT Report - ACC.	RT Report - REJ.	RT Report - R/S	RT Report - Defect location	RT Report - Date	UT - Report No.	UT - Date	MT Inside - Report No.	MT Inside - Date	MT Outside - Report No.	MT Outside - Date	PT Inside - Report No.	PT Inside - Date	PT Outside - Report No.	PT Outside - Date	Vacuum Test Root - Report No.	Vacuum Test Root - Date	Vacuum Test Cap - Report No.	Vacuum Test Cap - Date	Leak Test - Report No.	Leak Test - Date	Peaking Before - Report No.	Peaking Before - Date	Peaking After - Report No.	Peaking After - Date	Banding Before - Report No.	Banding Before - Date	Banding After - Report No.	Banding After - Date	Plumbness Before - Report No.	Plumbness Before - Date	Plumbness After - Report No.	Plumbness After - Date	Roundness - Report No.	Roundness - Date
5365	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG96	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5366	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG97	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5367	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG98	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5368	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG99	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5369	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG100	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5370	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG101	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5371	031-T-01	SHELL	PRIMARY WIND GIRDER	RW PWG102	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	2969	5041	SMAW	SM210	SM197							426	12-Jun-21																																						
5392	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG1	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	397985	16020104797	A283 GR.C	3351	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5393	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG2	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910085	16020104797	A283 GR.C	1910085	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5394	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG3	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910089	16020104762	A283 GR.C	1910085	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5395	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG4	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910085	16020104762	A283 GR.C	2969	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5396	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG5	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	3351	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5397	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG6	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	82970	5041	SMAW	SM81	SM03							429	14-Jun-21																																						
5398	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG7	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	1910085	14163	SMAW	SM81	SM03							429	14-Jun-21																																						
5399	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG8	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	1910085	14163	SMAW	SM05	SM90							429	14-Jun-21																																						
5400	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG9	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910088	14163	A283 GR.C	1910085	5041	SMAW	SM05	SM90							429	14-Jun-21																																						
5401	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG10	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910085	14163	A283 GR.C	397993	16020104797	SMAW	SM05	SM90							429	14-Jun-21																																						
5402	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG11	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910086	16020104797	A283 GR.C	397993	5041	SMAW	SM05	SM90							429	14-Jun-21																																						
5403	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG12	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910086	16020104797	A283 GR.C	397993	16020104797	SMAW	SM05	SM90							429	14-Jun-21																																						
5404	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG13	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	2910087	16020104797	A283 GR.C	57040	1208056	SMAW	SM05	SM90							429	14-Jun-21																																						
5405	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG14	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910085	16020104762	A283 GR.C	57040	1208056	SMAW	SM05	SM90							429	14-Jun-21																																						
5406	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG15	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1910089	16020104762	A283 GR.C	1910085	16020104797	SMAW	SM210	SM217							429	14-Jun-21																																						
5407	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG16	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	28866	1208547	A283 GR.C	397985	16020104797	SMAW	SM210	SM217							429	14-Jun-21																																						
5408	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG17	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	28866	1208547	A283 GR.C	397985	16020104797	SMAW	SM210	SM217							429	14-Jun-21																																						
5409	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG18	20.9	01251-100-116-02-XX-D99-003	263	12/13/2020	ST44-2	1909257	1602104797	A283 GR.C	1910085	16020104797	SMAW	SM210	SM217							429	14-Jun-21																																						
5410	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG19	20.9	01251-100-116-02-XX-D99-003	264	12/13/2020	ST44-2	2910087	1602104797	A283 GR.C	1910089	16020104762	SMAW	SM210	SM217							429	14-Jun-21																																						
5411	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG20	20.9	01251-100-116-02-XX-D99-003	264	12/13/2020	ST44-2	1909257	1602104797	A283 GR.C	1910085	16020104762	SMAW	SM210	SM217							429	14-Jun-21																																						
5473	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG83	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM212	SM85							427	13-Jun-21																																						
5474	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG84	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM212	SM85							427	13-Jun-21																																						
5475	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG85	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM212	SM85							427	13-Jun-21																																						
5476	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG86	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM212	SM85							427	13-Jun-21																																						
5477	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG87	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM212	SM85							427	13-Jun-21																																						
5478	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG88	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM145	SM24							427	13-Jun-21																																						
5479	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG89	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM145	SM24							427	13-Jun-21																																						
5480	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG90	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM145	SM24							427	13-Jun-21																																						

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	Visual Inspection: VIS No	Visual Inspection: Date	Visual Inspection: REP No.	Visual Inspection: Date
5481	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG91	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM145	SM24							427	13-Jun-21		
5482	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG92	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM145	SM24							427	13-Jun-21		
5483	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG93	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5484	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG94	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5485	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG95	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5486	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG96	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5487	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG97	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5488	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG98	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM170	SM194							427	13-Jun-21		
5489	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG99	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM148	SM90							427	13-Jun-21		
5490	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG100	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM148	SM90							427	13-Jun-21		
5491	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG101	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM148	SM90							427	13-Jun-21		
5492	031-T-01	SHELL	SCONDARY WIND GIRDER	RW SWG102	20.9	01251-100-116-02-XX-D99-003	266	12/14/2020	ST44-2	1910085	1602104797	A283 GR.C	2910087	16020104797	SMAW	SM148	SM90							427	13-Jun-21		
5573	031-T-01	SPIRAL STAIR	SS	RWSS19	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	1910088	5041	ST44-2	397993	5041	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5574	031-T-01	SPIRAL STAIR	SS	RWSS20	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	1910085	5041	ST44-2	397993	16020104797	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5575	031-T-01	SPIRAL STAIR	SS	RWSS21	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	1910085	5041	ST44-2	1910089	16020104797	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5576	031-T-01	SPIRAL STAIR	SS	RWSS22	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	2969	5041	ST44-2	57040	1208056	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5577	031-T-01	SPIRAL STAIR	SS	RWSS23	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	2969	5041	ST44-2	57040	1208056	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5578	031-T-01	SPIRAL STAIR	SS	RWSS24	6	01251-100-116-02-XX-D99-030	267	12/14/2020	A573CL2	3351	5041	ST44-2	1910085	16020104797	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5579	031-T-01	SPIRAL STAIR	SS	RWSS25	6	01251-100-116-02-XX-D99-030	268	12/14/2020	A573CL2	1910085	5041	ST44-2	397985	16020104797	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5580	031-T-01	SPIRAL STAIR	SS	RWSS26	6	01251-100-116-02-XX-D99-030	268	12/14/2020	A573CL2	1910085	5041	ST44-2	397985	16020104797	SMAW	SM67 SM29	SM60/ SM33							425	12-Jun-21		
5591	031-T-01	CURB ANGLE	CR	RW CR1	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	2969	5041	ST44-2	1910085	16020104797	SMAW	AR117	SM217							428	13-Jun-21		
5592	031-T-01	CURB ANGLE	CR	RW CR2	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	3351	5041	ST44-2	1910089	16020104762	SMAW	AR117	SM217							428	13-Jun-21		
5593	031-T-01	CURB ANGLE	CR	RW CR3	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	82970	5041	ST44-2	1910085	16020104762	SMAW	AR117	SM217							428	13-Jun-21		
5594	031-T-01	CURB ANGLE	CR	RW CR4	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	1910085	14163	ST44-2	2910087	16020104797	SMAW	AR117	SM217							428	13-Jun-21		
5595	031-T-01	CURB ANGLE	CR	RW CR5	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	1910085	14163	ST44-2	137931	53730	SMAW	SM20	SM19							428	13-Jun-21		
5596	031-T-01	CURB ANGLE	CR	RW CR6	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	1910085	5041	ST44-2	137931	53730	SMAW	SM20	SM19							428	13-Jun-21		
5597	031-T-01	CURB ANGLE	CR	RW CR7	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	900795	53704	ST44-2	139084	53703	SMAW	SM20	SM19							428	13-Jun-21		
5598	031-T-01	CURB ANGLE	CR	RW CR8	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	138327	53836	ST44-2	139084	53703	SMAW	SM20	SM19							428	13-Jun-21		
5599	031-T-01	CURB ANGLE	CR	RW CR9	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	124710	53345	ST44-2	71934203	53127	SMAW	SM20	SM19							428	13-Jun-21		
5600	031-T-01	CURB ANGLE	CR	RW CR10	20.9	01251-100-116-02-XX-D01-017	268	12/14/2020	A283 GR.C	122447	52574	ST44-2	71934203	53127	SMAW	SM20	SM19							428	13-Jun-21		
5637	031-T-01	ROOF	FOAM DAM	RW FD W1	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM33	SM33							432	16-Jun-21		
5638	031-T-01	ROOF	FOAM DAM	RW FD W2	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM33	SM33							432	16-Jun-21		
5639	031-T-01	ROOF	FOAM DAM	RW FD W3	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM33	SM33							432	16-Jun-21		
5640	031-T-01	ROOF	FOAM DAM	RW FD W4	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM33	SM33							432	16-Jun-21		
5641	031-T-01	ROOF	FOAM DAM	RW FD W5	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM33	SM33							432	16-Jun-21		

Sr. No	RT Report: SHOOT NO	RT: ACC	RT: REJ.	RT: R/S	RT: Defect location	RT: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
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Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class	Batch No.	Size	Heat Treatment: Report No	Date	VISUAL INSPECTION: VIS No	Date	REP No.	Date	RT Report: SHOOT NO	ACC.	REJ.	R/S	Defect location	Date	UT: Report No.	Date	MT Inside: Report No.	Date	MT Outside: Report No.	Date	PT Inside: Report No.	Date	PT Outside: Report No.	Date	Vacuum Test Root: Report No.	Date	Vacuum Test Cap: Report No.	Date	Leak Test: Report No.	Date	Peaking Before: Report No.	Date	Peaking After: Report No.	Date	Banding Before: Report No.	Date	Banding After: Report No.	Date	Plumbness Before: Report No.	Date	Plumbness After: Report No.	Date	Roundness: Report No.	Date
5642	031-T-01	ROOF	FOAM DAM	RW FD W6	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM33	SM33							432	16-Jun-21																																				
5643	031-T-01	ROOF	FOAM DAM	RW FD W7	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM33	SM33							432	16-Jun-21																																				
5644	031-T-01	ROOF	FOAM DAM	RW FD W8	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM13	SM13							432	16-Jun-21																																				
5645	031-T-01	ROOF	FOAM DAM	RW FD W9	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM13	SM13							432	16-Jun-21																																				
5646	031-T-01	ROOF	FOAM DAM	RW FD W10	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM13	SM13							432	16-Jun-21																																				
5647	031-T-01	ROOF	FOAM DAM	RW FD W11	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM13	SM13							432	16-Jun-21																																				
5648	031-T-01	ROOF	FOAM DAM	RW FD W12	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM13	SM13							432	16-Jun-21																																				
5649	031-T-01	ROOF	FOAM DAM	RW FD W13	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM13	SM13							432	16-Jun-21																																				
5650	031-T-01	ROOF	FOAM DAM	RW FD W14	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM13	SM13							432	16-Jun-21																																				
5651	031-T-01	ROOF	FOAM DAM	RW FD W15	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM148	SM148							432	16-Jun-21																																				
5652	031-T-01	ROOF	FOAM DAM	RW FDS W1	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM148	SM148							433	17-Jun-21																																				
5653	031-T-01	ROOF	FOAM DAM	RW FDS W2	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM148	SM148							433	17-Jun-21																																				
5654	031-T-01	ROOF	FOAM DAM	RW FDS W3	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM148	SM148							433	17-Jun-21																																				
5655	031-T-01	ROOF	FOAM DAM	RW FDS W4	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM148	SM148							433	17-Jun-21																																				
5656	031-T-01	ROOF	FOAM DAM	RW FDS W5	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM148	SM148							433	17-Jun-21																																				
5657	031-T-01	ROOF	FOAM DAM	RW FDS W6	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM148	SM148							433	17-Jun-21																																				
5658	031-T-01	ROOF	FOAM DAM	RW FDS W7	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM148	SM148							433	17-Jun-21																																				
5659	031-T-01	ROOF	FOAM DAM	RW FDS W8	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM148	SM148							433	17-Jun-21																																				
5660	031-T-01	ROOF	FOAM DAM	RW FDS W9	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM148	SM148							433	17-Jun-21																																				
5661	031-T-01	ROOF	FOAM DAM	RW FDS W10	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM148	SM148							433	17-Jun-21																																				
5662	031-T-01	ROOF	FOAM DAM	RW FDS W11	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM148	SM148							433	17-Jun-21																																				
5663	031-T-01	ROOF	FOAM DAM	RW FDS W12	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM148	SM148							433	17-Jun-21																																				
5664	031-T-01	ROOF	FOAM DAM	RW FDS W13	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM148	SM148							433	17-Jun-21																																				
5665	031-T-01	ROOF	FOAM DAM	RW FDS W14	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM132	SM210							433	17-Jun-21																																				
5666	031-T-01	ROOF	FOAM DAM	RW FDS W15	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM132	SM210							433	17-Jun-21																																				
5667	031-T-01	ROOF	FOAM DAM	RW FDS W16	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM132	SM210							433	17-Jun-21																																				
5668	031-T-01	ROOF	FOAM DAM	RW FDS W17	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM132	SM210							433	17-Jun-21																																				
5669	031-T-01	ROOF	FOAM DAM	RW FDS W18	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM132	SM210							433	17-Jun-21																																				
5670	031-T-01	ROOF	FOAM DAM	RW FDS W19	6	1251-100-116-02-XX-D01-024	269	12/14/2020	SA283Grc	135918	53363	SA283Grc	138324	53836	SMAW	SM148	SM148							433	17-Jun-21																																				
5671	031-T-01	ROOF	FOAM DAM	RW FDS W20	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM148	SM148							433	17-Jun-21																																				
5672	031-T-01	ROOF	FOAM DAM	RW FDS W21	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM10	SM10							433	17-Jun-21																																				
5673	031-T-01	ROOF	FOAM DAM	RW FDS W22	6	1251-100-116-02-XX-D01-027	269	12/14/2020	SA283Grc	136259	53492	ST.44	124710	52661	SMAW	SM10	SM10							433	17-Jun-21																																				
5674	031-T-01	ROOF	FOAM DAM	RW FDS W23	6	1251-100-116-02-XX-D01-025	269	12/14/2020	SA283Grc	134659	53344	SA283Grc	137928	53730	SMAW	SM10	SM10							433	17-Jun-21																																				
5675	031-T-01	ROOF	FOAM DAM	RW FDS W24	6	1251-100-116-02-XX-D01-026	269	12/14/2020	SA283Grc	136678	53533	SA283Grc	133168	53839	SMAW	SM10	SM10							433	17-Jun-21																																				
5678	031-T-01	ROOF	UPPERDECK /RIM	RW RU01	5	1251-1001-116-02-XX-D99-002	269	12/14/2020	SA283Grc	138324	53836	SA283Grc	134650	53333	SMAW	SM10	SM10							441	21-Jun-21																																				

Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report: Report No	Material Traceability Report: Date	A: Classification	A: Heat No.	A: Certificate No.	B: Classification	B: Heat No.	B: Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable: Class.	Consumable: Batch No.	Consumable: Size	Heat Treatment: Report No	Heat Treatment: Date	Visual Inspection: VIS No	Visual Inspection: Date	Visual Inspection: REP No.	Visual Inspection: Date
5679	031-T-01	ROOF	UPPERDECK /RIM	RW RU02	5	1251-1001-116-02-XX-D99-002	269	12/14/2020	SA283Grc	133168	53839	SA283Grc	135136	53344	SMAW	SM10	SM10							441	21-Jun-21		
5682	031-T-01	ROOF	UPPERDECK /RIM	RW RU04	5	1251-1001-116-02-XX-D99-002	270	12/14/2020	SA283Grc	137928	53730	SA283Grc	136259	53492	SMAW	SM10	SM10							441	21-Jun-21		
5685	031-T-01	ROOF	UPPERDECK /RIM	RW RU06	5	1251-1001-116-02-XX-D99-002	270	12/14/2020	SA283Grc	136678	53533	SA283Grc	136679	53533	SMAW	SM132	SM210							441	21-Jun-21		
5687	031-T-01	ROOF	UPPERDECK /RIM	RW RU07	5	1251-1001-116-02-XX-D99-002	270	12/14/2020	SA283Grc	136688	53592	SA283Grc	137945	53703	SMAW	SM132	SM210							441	21-Jun-21		

Sr. No	RT Report: SHOOT NO	RT Report: ACC.	RT Report: REJ.	RT Report: R/S	RT Report: Defect location	RT Report: Date	UT: Report No.	UT: Date	MT Inside: Report No.	MT Inside: Date	MT Outside: Report No.	MT Outside: Date	PT Inside: Report No.	PT Inside: Date	PT Outside: Report No.	PT Outside: Date	Vacuum Test Root: Report No.	Vacuum Test Root: Date	Vacuum Test Cap: Report No.	Vacuum Test Cap: Date	Leak Test: Report No.	Leak Test: Date	Peaking Before: Report No.	Peaking Before: Date	Peaking After: Report No.	Peaking After: Date	Banding Before: Report No.	Banding Before: Date	Banding After: Report No.	Banding After: Date	Plumbness Before: Report No.	Plumbness Before: Date	Plumbness After: Report No.	Plumbness After: Date	Roundness: Report No.	Roundness: Date
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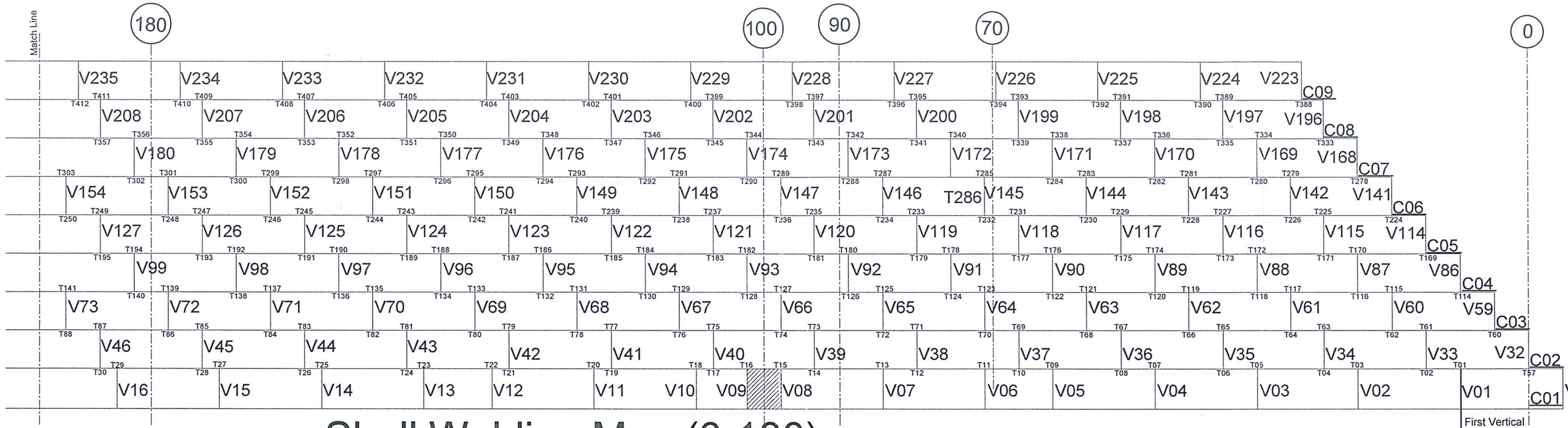
Sr. No	Tank No.	Part	Item Type	Weld No.	Thickness	Drawing No.	Material Traceability Report – Report No	Material Traceability Report – Date	A – Classification	A – Heat No.	A – Certificate No.	B – Classification	B – Heat No.	B – Certificate No.	Welding Process	Welder No. 1	Welder No. 2	REP. BY	Consumable – Class	Consumable – Batch No.	Consumable – Size	Heat Treatment – Report No	Heat Treatment – Date	Visual Inspection – VIS No	Visual Inspection – Date	Visual Inspection – REP No.	Visual Inspection – Date	RT Report	UT	MT	PT	Vacuum Test	Leak Test – Report No.	Leak Test – Date	Peaking	Banding	Plumbness	Roundness
5985	031-T-01	ROOF REPAIR	LOWER DECK	RW L517	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC11	FC11							422	10-06-2021								21	25-6-2021				
5986	031-T-01	ROOF REPAIR	LOWER DECK	RW L518	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC11	FC11							422	10-06-2021								21	25-6-2021				
5987	031-T-01	ROOF REPAIR	LOWER DECK	RW L519	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512726	53166	SA283Grc	512726	53166	FCAW	FC11	FC11							422	10-06-2021								21	25-6-2021				
5988	031-T-01	ROOF REPAIR	LOWER DECK	RW L524	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC11	FC11							422	10-06-2021								21	25-6-2021				
5989	031-T-01	ROOF REPAIR	LOWER DECK	RW L525	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC11	FC11							422	10-06-2021								22	25-6-2021				
5990	031-T-01	ROOF REPAIR	LOWER DECK	RW L526	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512466	52903	SA283Grc	512466	52903	FCAW	FC11	FC11							422	10-06-2021								22	25-6-2021				
5991	031-T-01	ROOF REPAIR	LOWER DECK	RW L527	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512466	52903	SA283Grc	512874	53166	FCAW	FC11	FC11							422	10-06-2021								22	25-6-2021				
5992	031-T-01	ROOF REPAIR	LOWER DECK	RW L531	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	513562	53703	FCAW	FC11	FC11							422	10-06-2021								22	25-6-2021				
5993	031-T-01	ROOF REPAIR	LOWER DECK	RW L532	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC11	FC11							422	10-06-2021								22	25-6-2021				
5994	031-T-01	ROOF REPAIR	LOWER DECK	RW L533	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512466	52903	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
5995	031-T-01	ROOF REPAIR	LOWER DECK	RW L534	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512466	52903	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
5996	031-T-01	ROOF REPAIR	LOWER DECK	RW L535	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
5997	031-T-01	ROOF REPAIR	LOWER DECK	RW L547	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
5998	031-T-01	ROOF REPAIR	LOWER DECK	RW L548	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512550	52951	SA283Grc	513145	53333	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
5999	031-T-01	ROOF REPAIR	LOWER DECK	RW L549	5	1251-100-116-02-XX-D99-004	308	15-06-21	SA283Grc	512550	52951	SA283Grc	513145	53333	FCAW	FC20	FC20							422	10-06-2021								22	25-6-2021				
6000	031-T-01	ROOF REPAIR	LOWER DECK	RW L550	5	1251-100-116-02-XX-D99-004	309	15-06-21	SA283Grc	512469	52847	SA283Grc	513145	53333	FCAW	FC20	FC20							422	10-06-2021								23	25-6-2021				
6001	031-T-01	ROOF REPAIR	LOWER DECK	RW L554	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512727	53166	SA283Grc	512550	52951	FCAW	FC20	FC20							422	10-06-2021								23	25-6-2021				
6002	031-T-01	ROOF REPAIR	LOWER DECK	RW L555	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512727	53166	SA283Grc	512469	52847	FCAW	FC20	FC20							422	10-06-2021								23	25-6-2021				
6003	031-T-01	ROOF REPAIR	LOWER DECK	RW L560	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6004	031-T-01	ROOF REPAIR	LOWER DECK	RW L561	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	513145	53333	SA283Grc	512469	52913	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6005	031-T-01	ROOF REPAIR	LOWER DECK	RW L562	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	513145	53333	SA283Grc	512469	52913	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6006	031-T-01	ROOF REPAIR	LOWER DECK	RW L570	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512727	53166	SA283Grc	512462	52847	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6007	031-T-01	ROOF REPAIR	LOWER DECK	RW L571	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6008	031-T-01	ROOF REPAIR	LOWER DECK	RW L572	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512466	52903	SA283Grc	512501	52847	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6009	031-T-01	ROOF REPAIR	LOWER DECK	RW L573	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512466	52903	SA283Grc	512727	53166	FCAW	FC20	FC20							423	11-06-2021								23	25-6-2021				
6010	031-T-01	ROOF REPAIR	LOWER DECK	RW L575	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512727	53166	SA283Grc	512727	53166	FCAW	FC20	FC20							423	11-06-2021								24	25-6-2021				
6011	031-T-01	ROOF REPAIR	LOWER DECK	RW L576	5	1251-100-116-02-XX-D99-004			SA283Grc	H	H	SA283Grc	H	H	FCAW	FC20	FC20							423	11-06-2021								24	25-6-2021				
6012	031-T-01	ROOF REPAIR	LOWER DECK	RW L577	5	1251-100-116-02-XX-D99-004	310	16-06-21	SA283Grc	512469	52913	SA283Grc	512466	52903	FCAW	FC20	FC20							423	11-06-2021								24	25-6-2021				

	PETROJET	Enppi	PMC
Name :	H- abd allah		
Sign :	[signature]	[signature]	[signature]
Date :	28/06/2021		

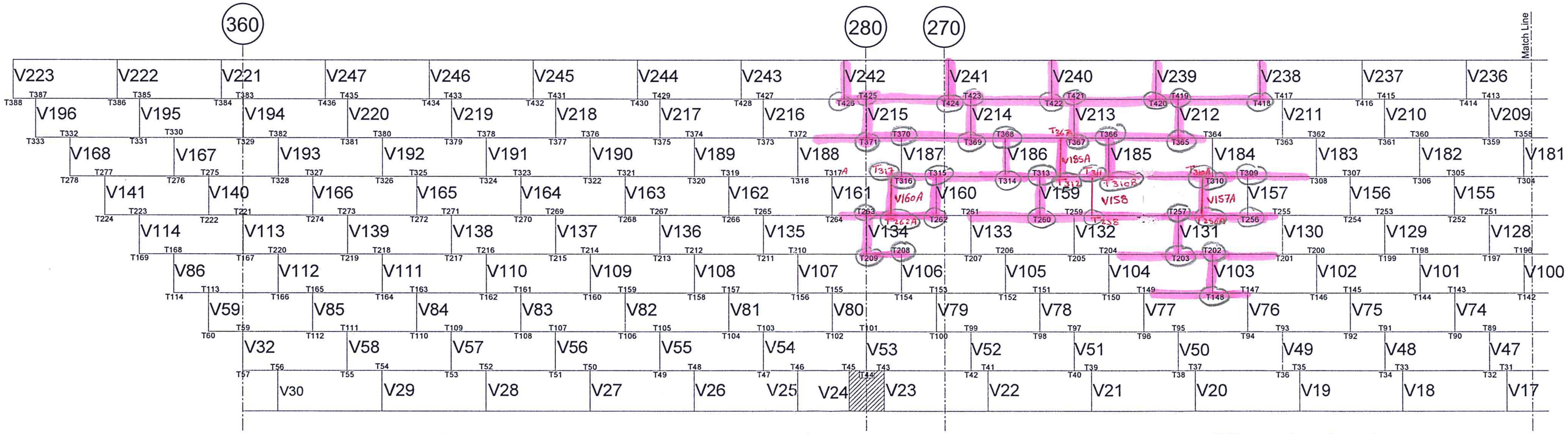
Rev. 0 for Clear all Punch "A" &

Rev. 1 for all Activity After finished.

8. WELD MAPS



Shell Welding Map (0-180)

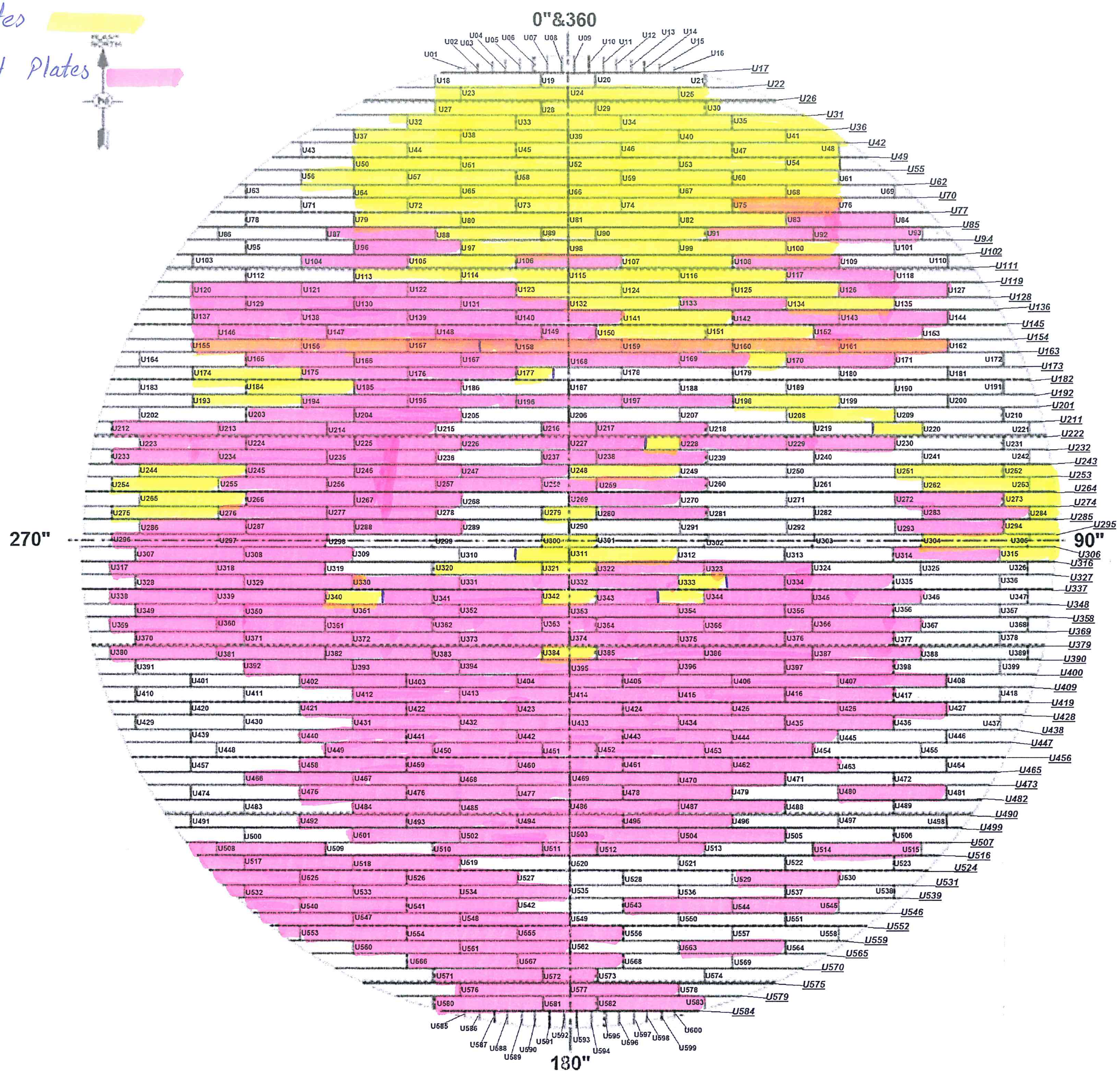


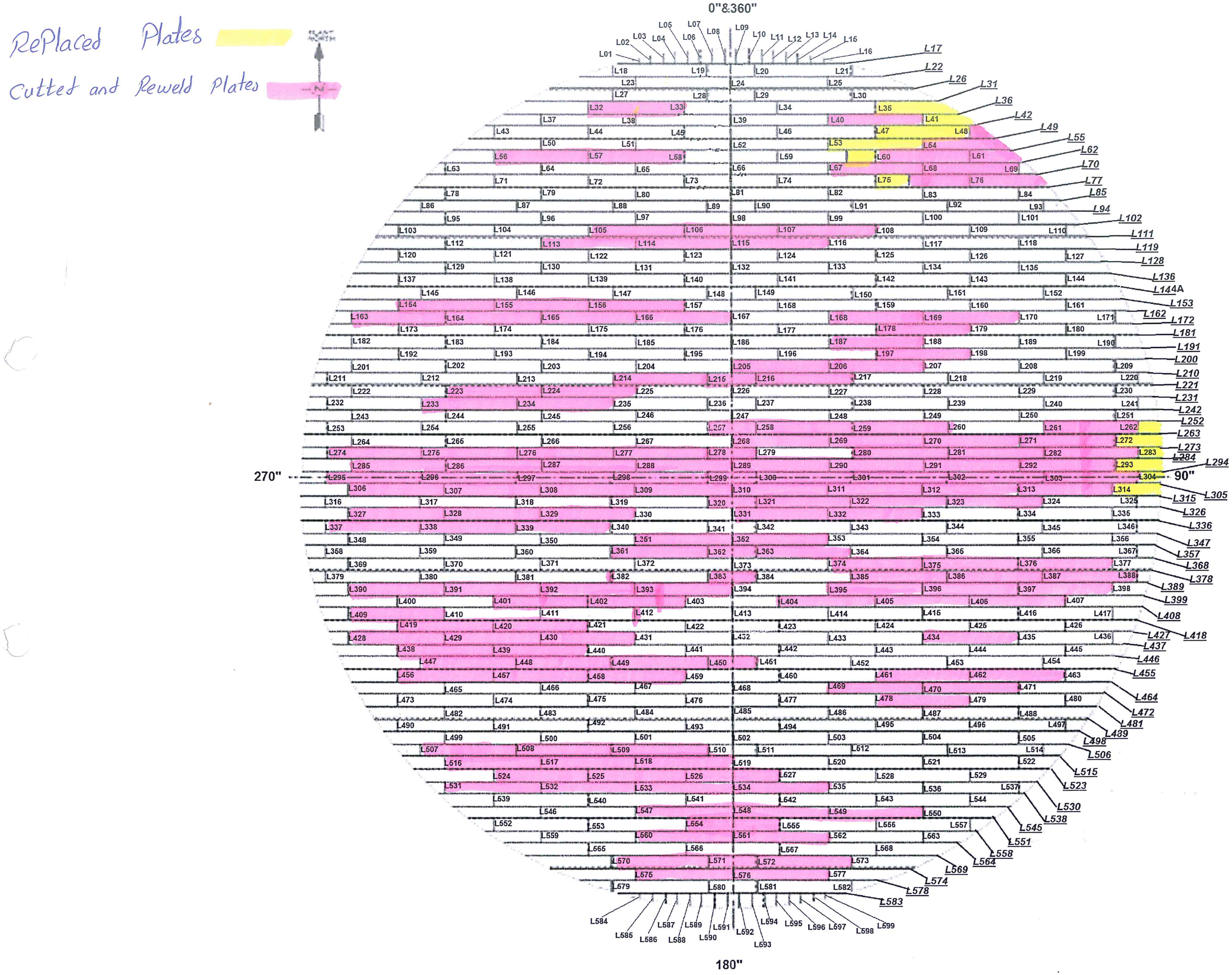
Shell Welding Map (180-360)

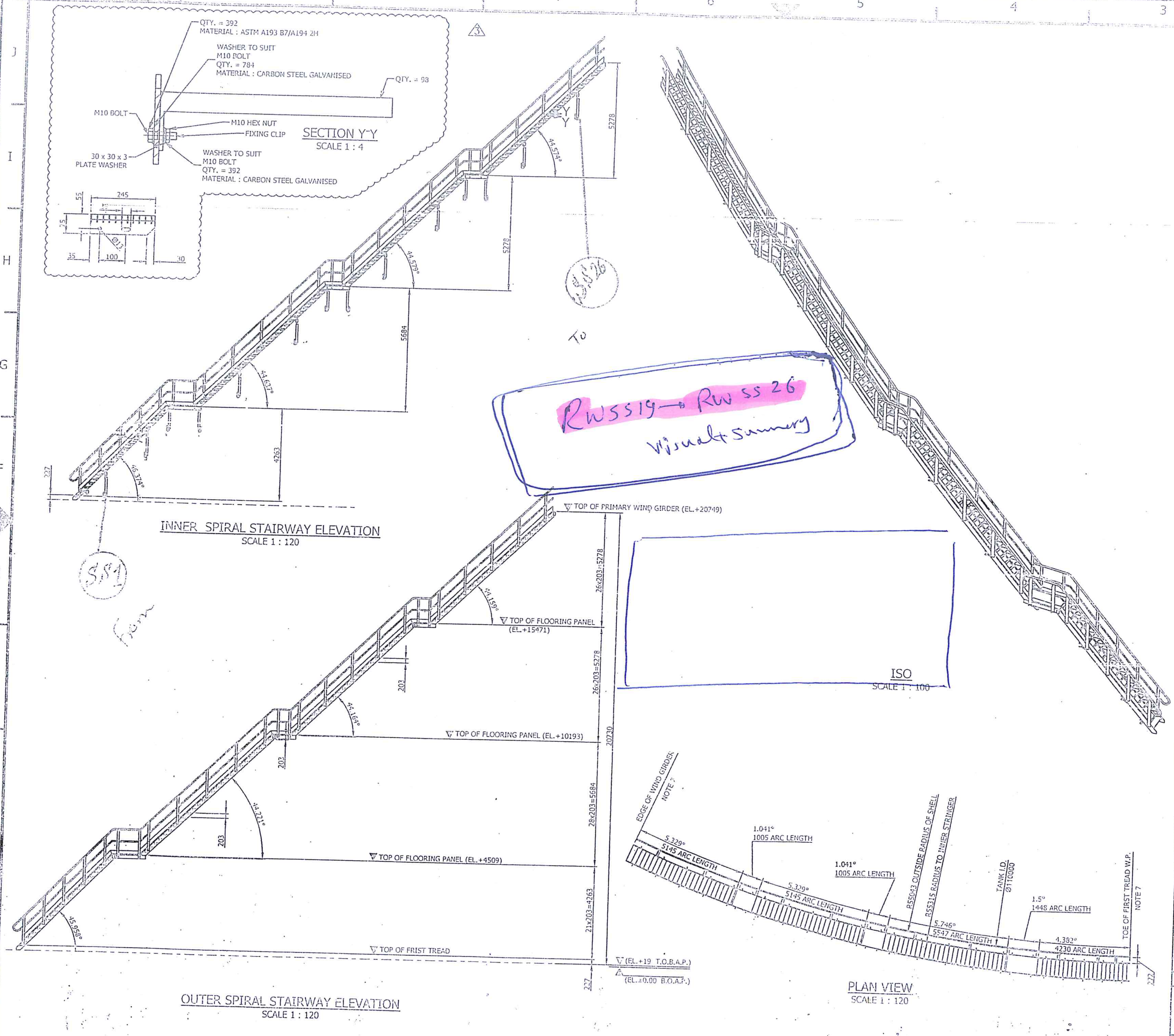
Tank ( )

RePlaced Plates

Cutted and Reweld Plates




RePlaced Plates
Cutted and Reweld Plates
0"&360"
270"
90"
180"



GENERAL NOTES:

1. ALL WELD TO BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.
2. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL.
3. TREADS TO BE OPEN GRATING USING 35x5 LB BARS WITH SEPARATE TOP EDGE AT 30 CENTERS & 6x6 TWISTED TRANSVERSE BARS AT 50 CENTERS.
4. TREADS TO BE HOT DIP GALVANIZED TO BS 720.
5. 4-OFF FIXING CLIPS REQUIRED PER TREAD.
6. FLOORING PANELS TO HAVE A MINIMUM OF 4-OFF FIXING CLIPS PER PANEL.
7. THIS DRAWING IS FOR FABRICATION ONLY. FOR SPIRAL STAIR ORIENTATION REFER TO DRAWING NO. 1251-100-116-02-XX-B01-002.
8. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-031.
9. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 1251-100-116-02-XX-B01-001.

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
B.O.A.P. – BOTTOM OF ANNULAR PLATE
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

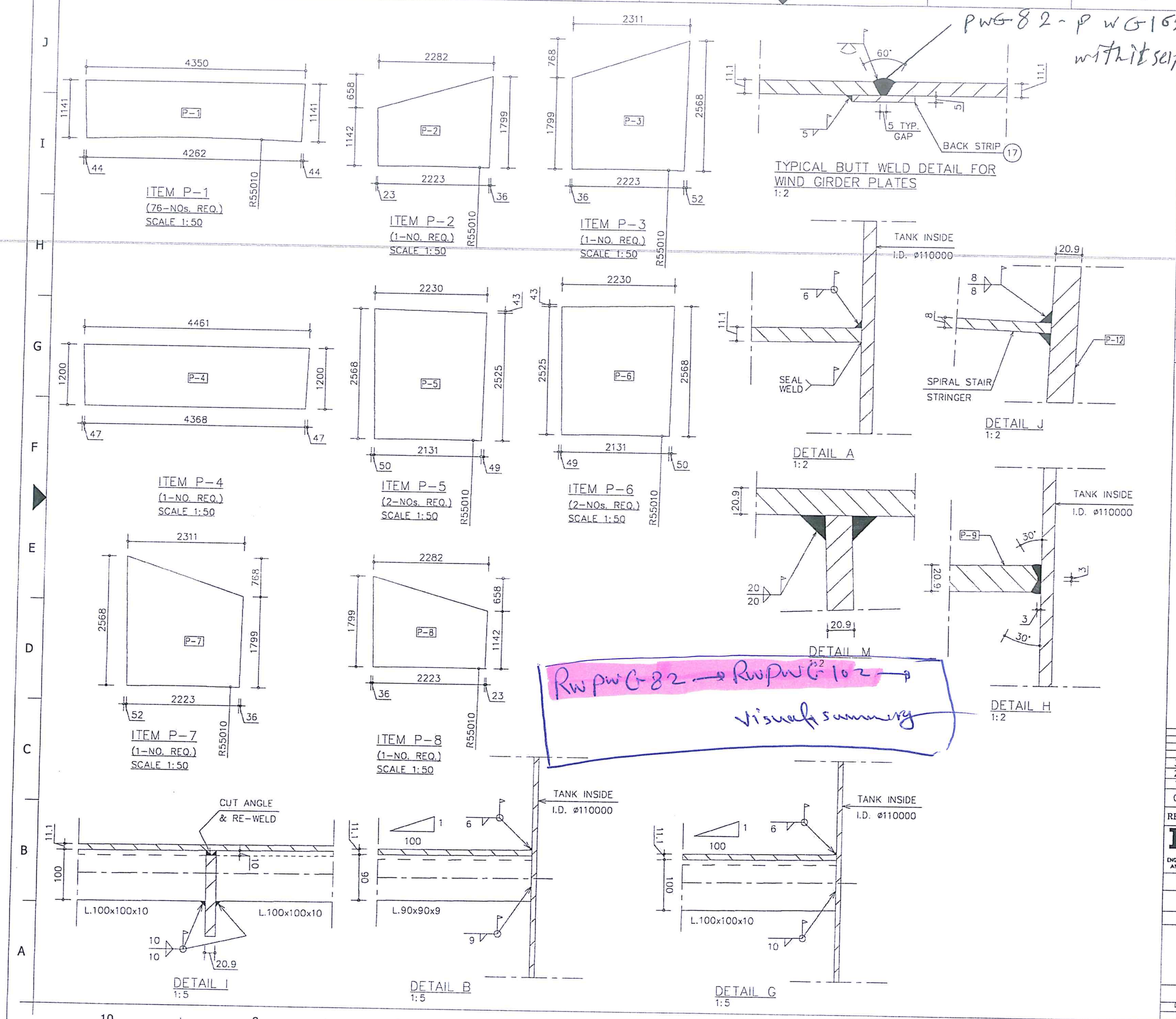
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Arrangement of Spiral Stair for Tanks

DIMS. IN mm — FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D01-030

SHEET No.: 1 OF 1 — REVISION: 3



LEGENDS

- LG. – LONG
- C.L. – CENTER LINE
- E.L. – EARTHING LUG
- CP.E.L. – CP EXTERNAL LUG
- THK. – THICKNESS
- S.M. – SETTLEMENT MARK
- O.D. – OUTER DIAMETER
- R. – RADIUS
- T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
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- C.J.P. – COMPLETE JOINT PENETRATION
- A.N.J. – ANNULAR PLATE WELD JOINT
- B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
- B.P.W.J. – BOTTOM PLATE WELD JOINT
- TYP. – TYPICAL
- DET. – DETAIL
- NOS. – NUMBERS
- W.P. – WORKING POINT
- C.O.D. – CLEAN OUT DOOR
- I.D. – INNER DIAMETER
- EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	14/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

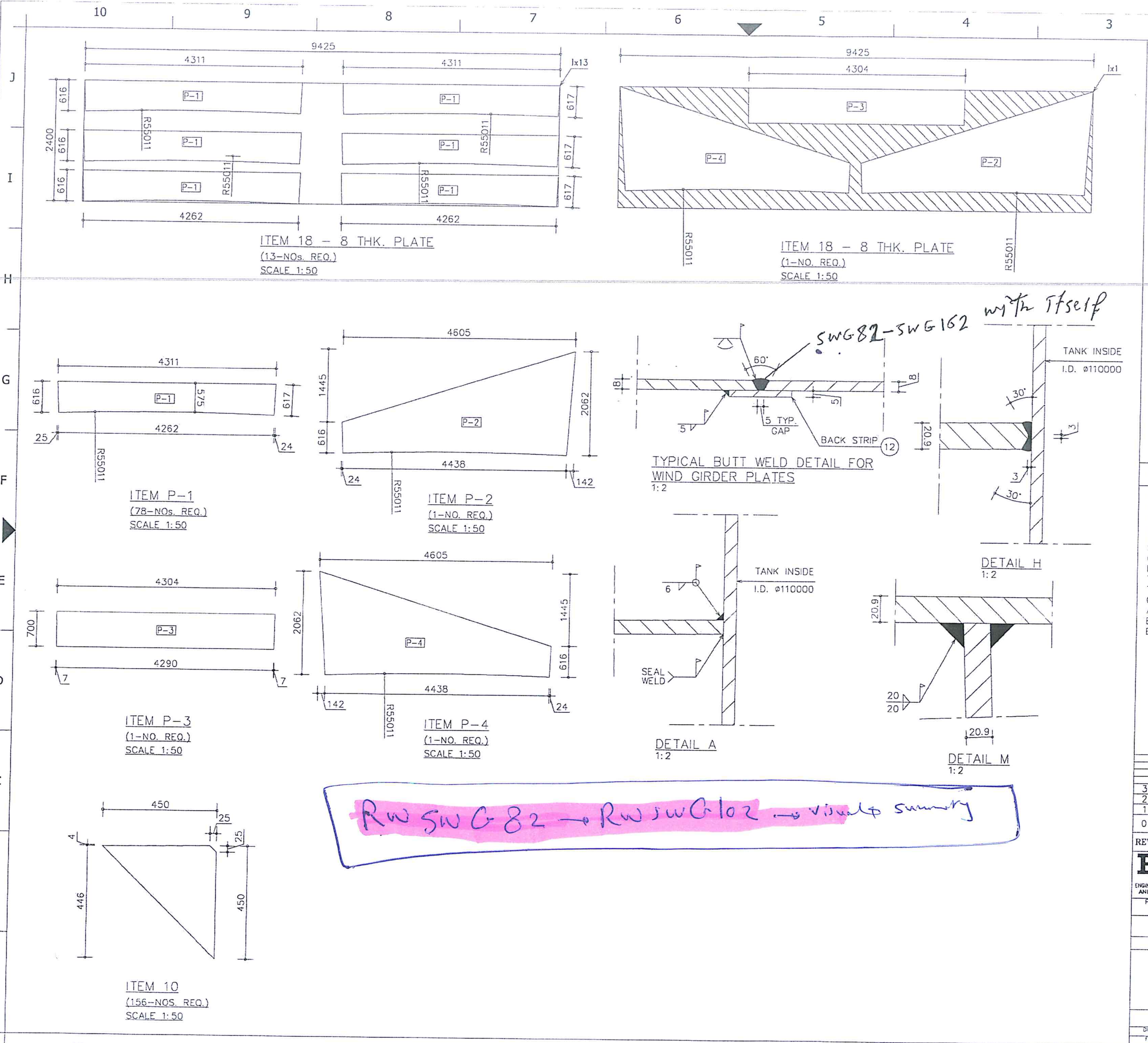
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Details

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-008 | SHEET No. 3 OF 4 | REVISION 3



LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

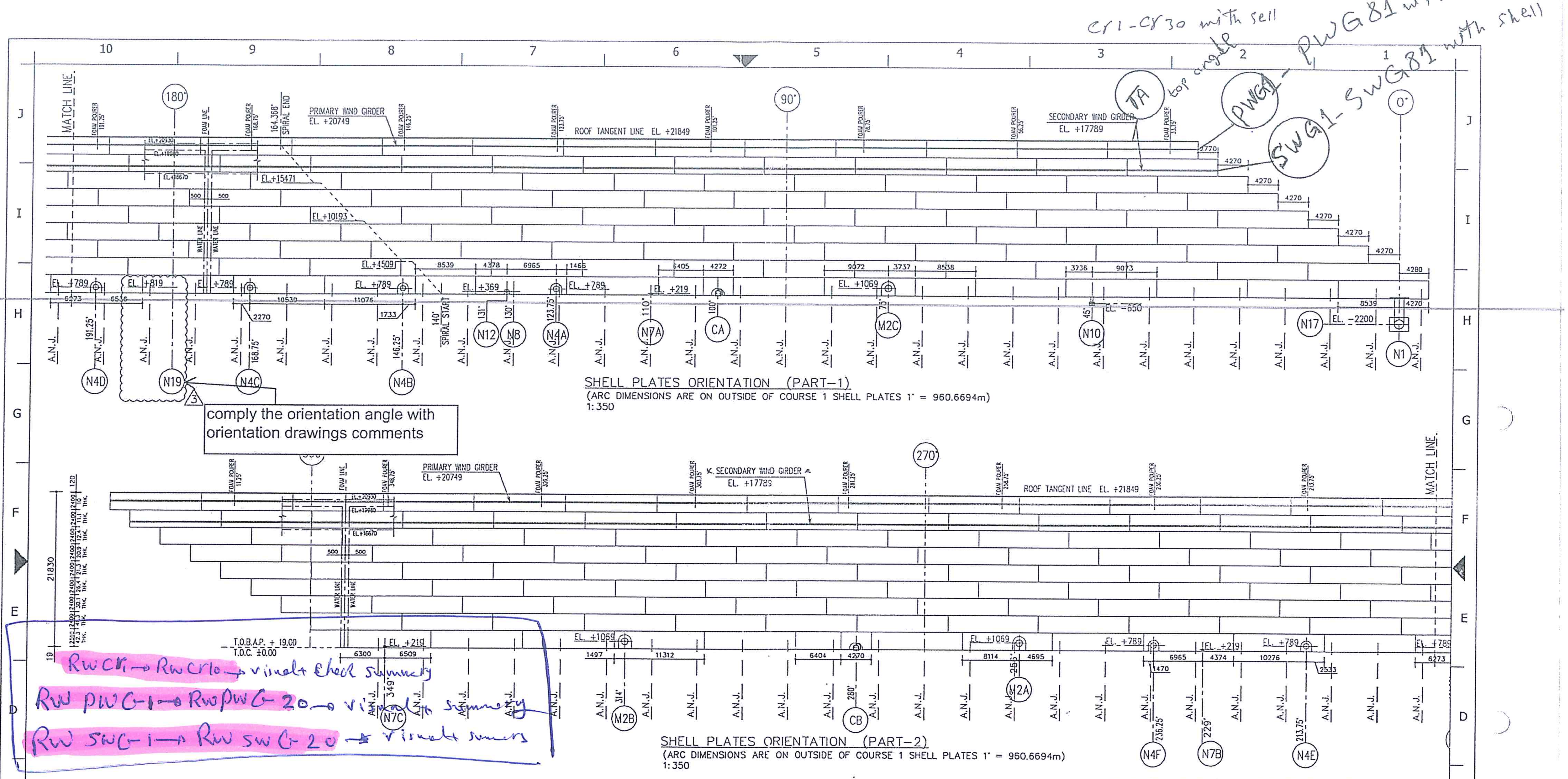
CRUDE OIL STORAGE TANK
TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Secondary Wind Girder Details

DIMS. IN mm — FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D01-010

SHEET No. 2 OF 3 — REVISION 3



GENERAL NOTES:–

1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.).
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR ORIENTATION OF RAS BADRAN TANK 020-T-01 SEE SHEET 2/3.
6. FOR ORIENTATION OF RAS BADRAN TANK 020-T-02 SEE SHEET 3/3.
7. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO. 1251-100-116-02-XX-D99-018.
8. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020.

BOTTOM & SHELL FITTING

NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52"	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30"	150# RF	789	55300	MIXER	123.75°
N4B	1	30"	150# RF	789	55300	MIXER	146.25°
N4C	1	30"	150# RF	789	55300	MIXER	168.75°
N4D	1	30"	150# RF	789	55300	MIXER	191.25°
N4E	1	30"	150# RF	789	55300	MIXER	213.75°
N4F	1	30"	150# RF	789	55300	MIXER	236.25°
N7A	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2"	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12"	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12"	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2"	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36"	API 650	1069	55300	MANWAY	256°
M2B	1	36"	API 650	1069	55300	MANWAY	314°
M2C	1	36"	API 650	1069	55300	MANWAY	75°
CA	1	36x48"	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48"	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	180°

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-B01-003.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

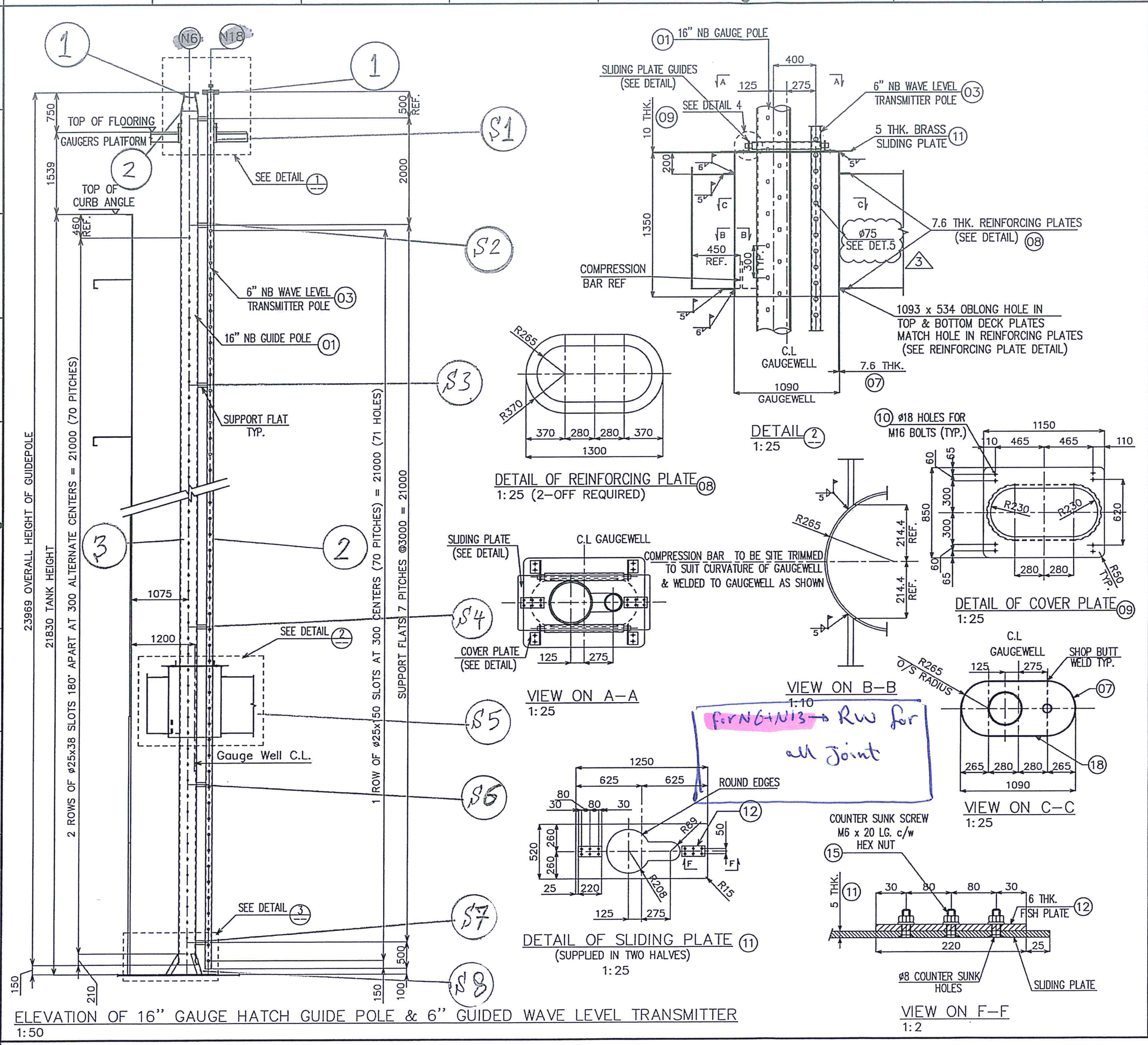
Crude Oil Storage Tanks

TANK I.D. 010-T-01/02/03/04/05, 020-T-03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Shell Plates Development

DIMS. IN mm — FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D01-017 — SHEET No. 1 / 3 — REVISION 3



GENERAL NOTES

1. GUIDE POLE TO BE ERECTED TO WITHIN 15mm OF PLUMBED VERTICAL.
2. INSIDE BORE OF GUIDE POLE & LEVEL TRANSMITTER POLE MUST BE FREE OF ALL BURRS, PROJECTIONS & WELD SPATTER WITH PARTICULAR ATTENTION BEING PAID TO THE INSIDE OF THE ø25 SLOTS.
3. FOR TRUE ORIENTATION OF POLES SEE ROOF ORIENTATION DRAWINGS.
4. ITEMS 01 & 03 TO BE SITE BUTT WELDED AS REQUIRED.
5. SURFACE PREPARATION SHALL COMPLY WITH NOTE 34 IN MECHANICAL DATA SHEET NO. 1251-100-MDS-116-02-01.

PART LIST (FOR 1-OFF TANK)

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	1	ASTM A106 GR. B	PIPE : 16" NB SCH XS x 23443 LG. (SEE NOTE 4)
2	-	1	ASTM A105	SO FLANGE : 8" NB 150# RF
3	-	1	ASTM A106 GR. B	PIPE : 6" NB SCH XS x 23994 LG. (SEE NOTE 4)
4	-	1	ASTM A105	SO FLANGE : 6" NB 300# RF
5	9	-	ASTM A36	SUPPORT FLAT : 75 x 7.6 FB x 208
6	1	-	ASTM A283 GR. C	PAD : 1100 SQ. x 10 THK c/w 50 RAD CORNERS
7	-	2	ASTM A283 GR. C	BODY PLATE : 833 x 7.6 x 1350 LG. (ROLLED TO 265 O/RAD)
8	2	-	ASTM A283 GR. C	REINF.PLATES : 7.6 THK (AS DETAILED)
9	-	1	ASTM A283 GR. C	COVER PLATE : 750 x 10 x 1150 (SHAPED)
10	8	-	ASTM A307 GR. B SPUN GALVANISED	BOLTS : M16 x 40 LONG c/w 1-NUT
11	2	-	BRASS	SLIDING PLATE : 570 x 5 x 1250 (SHAPED) (SUPPLIED IN 2 HALVES - SEE DRAWING)
12	2	-	BRASS	FISH PLATE : 100 x 5 x 220
13	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
14	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
15	12	-	BRASS	COUNTERSUNK SCREW : M6 x 20 LONG c/w 1- NUT
16	1	-	ASTM A283 GR. C	CONE : 10 THK. (SEE DETAIL)
17	-	1	ASTM A234 WPB	CONCENTRIC REDUCER : 16" x 8" NB SCH XS BW
18	-	2	ASTM A283 GR. C	BODY PLATE : 560 x 7.6 x 1350 LG.
19	3	-	ASTM A36	SUPPORT : 100 x 100 x 10 RSA x 635 LG.
20	4	-	BRASS	BUSH : SEE DETAIL
21	-	2	BRASS	TUBE : 60 O/D x 50 I/D x 500 LG.
22	-	2	ASTM A36	ROLLER : Ø50 x 590 LG.

LEGENDS

- LG. – LONG
- C.L. – CENTER LINE
- E.L. – EARTHING LUG
- CP.E.L. – CP EXTERNAL LUG
- THK. – THICKNESS
- S.M. – SETTLEMENT MARK
- O.D. – OUTER DIAMETER
- R. – RADIUS
- T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
- T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
- C.J.P. – COMPLETE JOINT PENETRATION
- A.N.J. – ANNULAR PLATE WELD JOINT
- B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
- B.P.W.J. – BOTTOM PLATE WELD JOINT
- TYP. – TYPICAL
- DET. – DETAIL
- NOS. – NUMBERS
- W.P. – WORKING POINT
- C.O.D. – CLEAN OUT DOOR
- I.D. – INNER DIAMETER
- EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	09/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
2	28/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

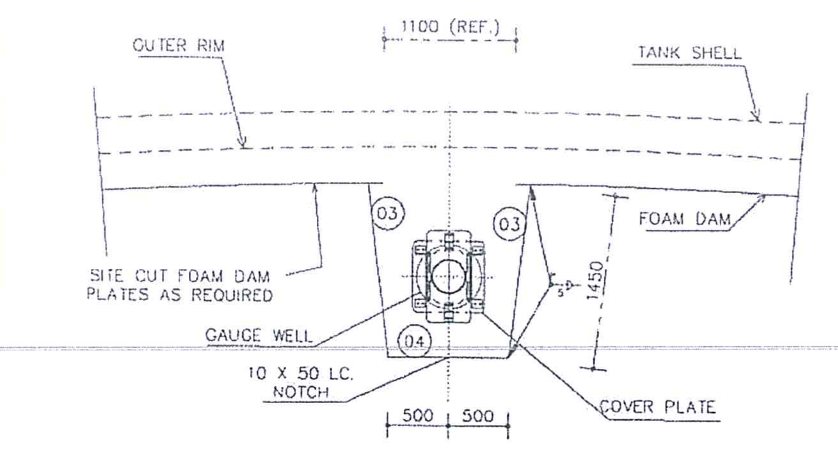
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

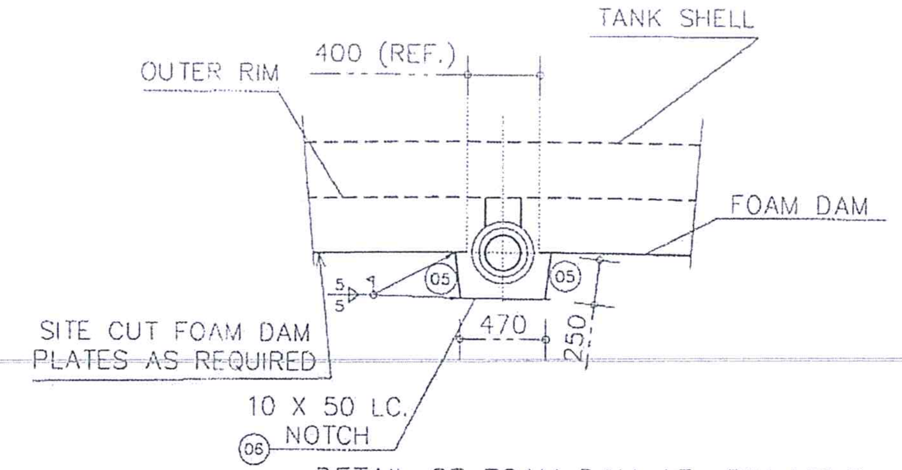
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

DETAILS OF 16" NP GUIDE POLE c/w 8" NP GAUGE HATCH REF. N6 & 6" NP LEVEL TRAN. REF. N18 N6 N13

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-022	1 OF 2	3



DETAIL OF FOAM DAM AT POLES
(TYPICAL 2 ~ PLACES)



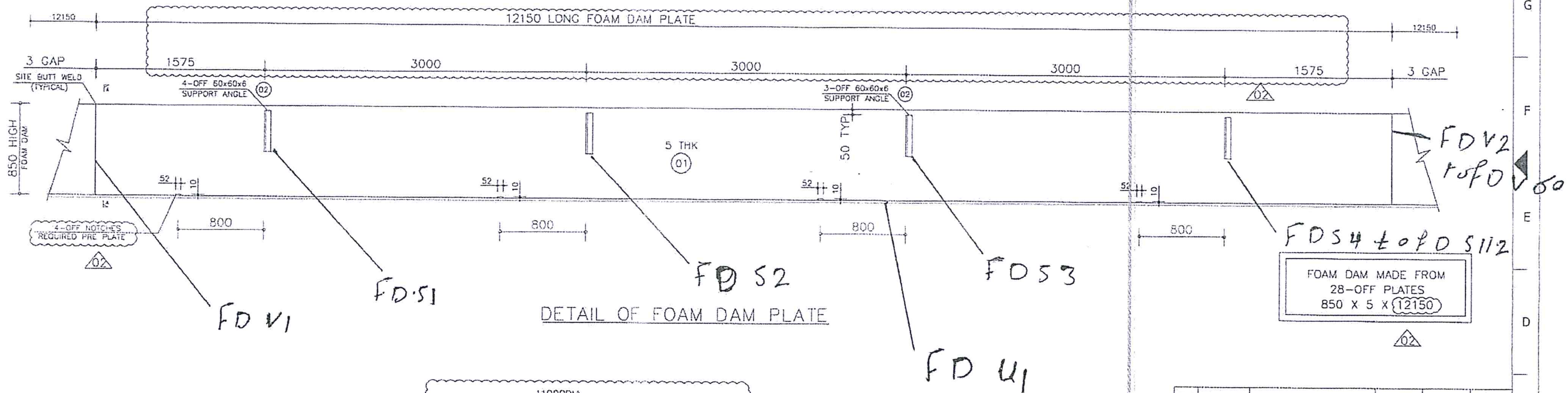
DETAIL OF FOAM DAM AT RIM VENT
(TYPICAL 6 ~ PLACES)

GENERAL NOTES

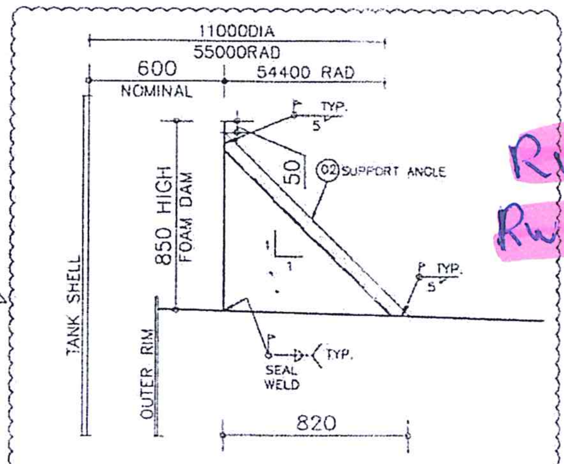
1. FOR DETAILS OF DOUBLE DECK FLOATING ROOF SEE DRAWING NO. 1251-100-116-02-XX-D99-004 & 1251-100-116-02-XX-D99-005.
2. FOR DETAILS OF ROOF FITTINGS SEE DRAWING NO. 1251-100-116-02-XX-D99-026 & 1251-100-116-02-XX-D99-027.
3. DAM HEIGHT SHALL BE AT LEAST 50 MM HIGHER THAN ANY BURNOUT PANELS IN METAL SECONDARY SEAL AS PER NFPA 11.

PARTS LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	28	.	ASTM A283 GR C	FOAM DAM : 850 X 5 X 12150
02	112	.	ST. 44	SUPPORT ANGLE : 60X60X6 RSA X1160 LG
03	4	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 1450
04	2	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 1000
05	12	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 250
06	6	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 470



DETAIL OF FOAM DAM PLATE



SECTION A-A

RW FD V1 → RW FD 15 → Visual + Summery
RW FD S1 → RW FD S24

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	16/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	03/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

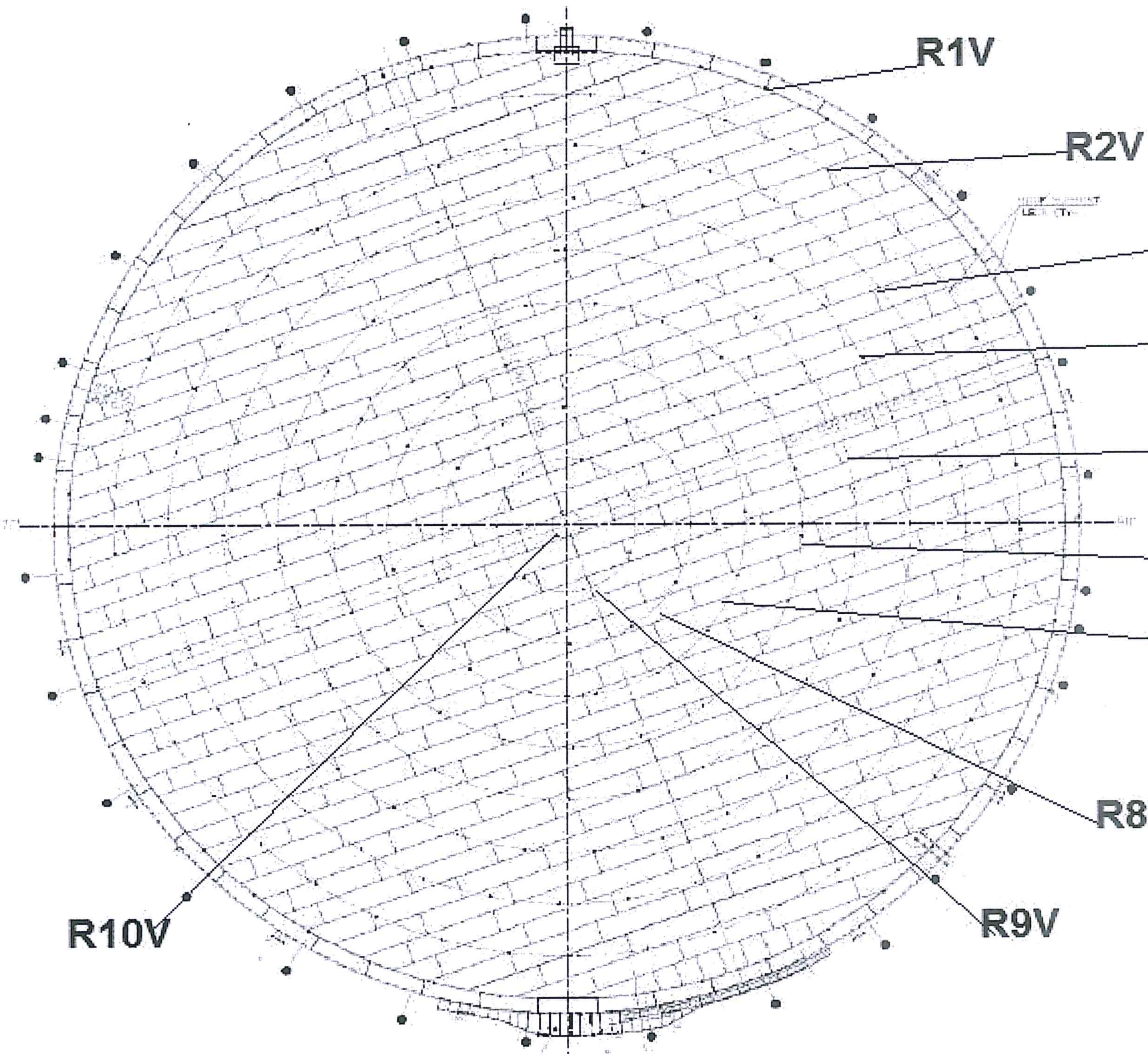
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E.

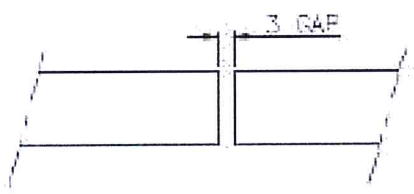
PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Foam Dam Details

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-024	1 OF 1	02





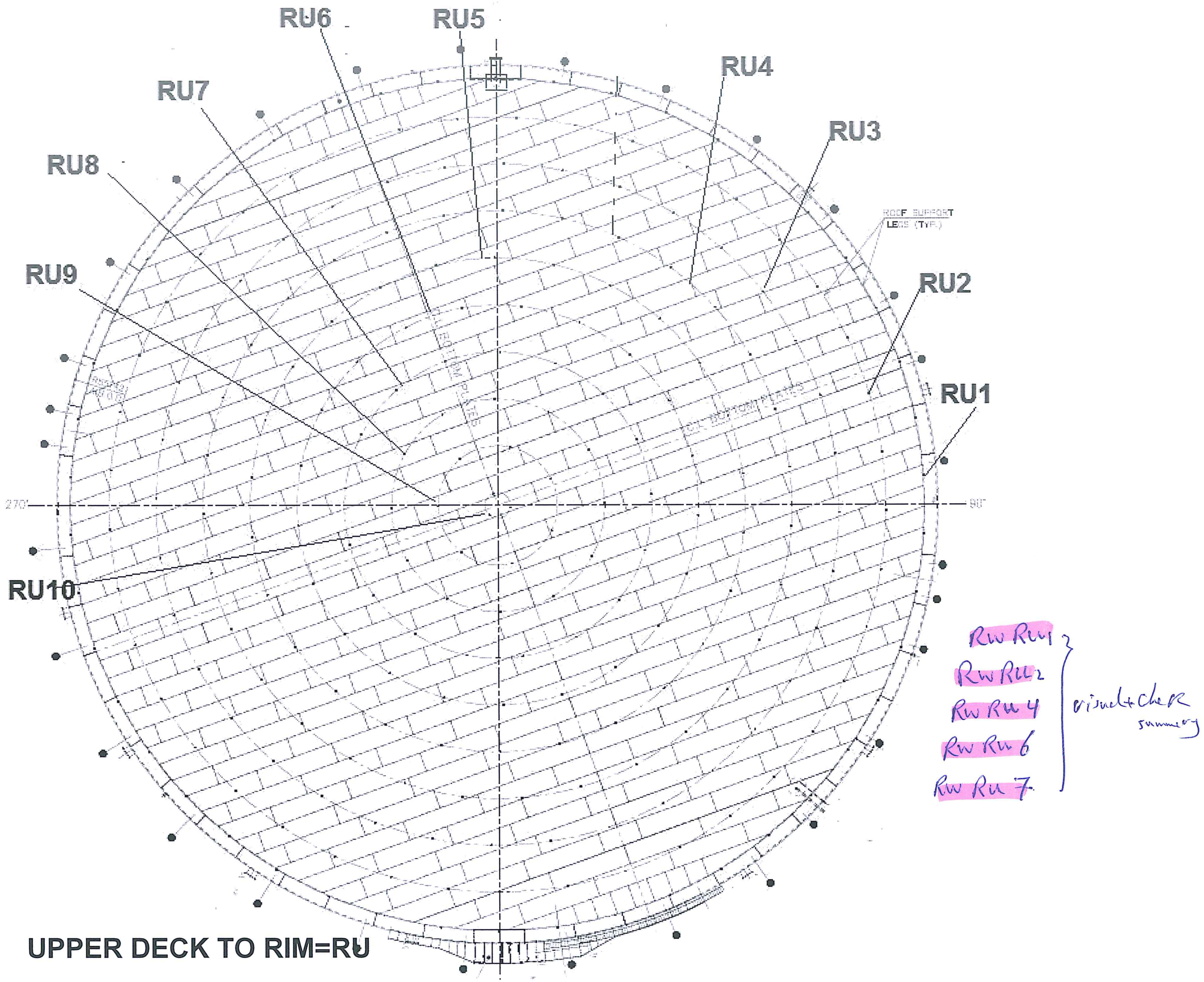
BUTT JOINT IN INNER & OUTER RIMS

R10V1
R9V1:R9V4
R8V1:R8V8
R7V1:R7V11
R6V1:R6V14
R5V1:R5V17
R4V1:R4V20
R3V1:R3V23
R2V1:R2V26
R1V1:R1V38

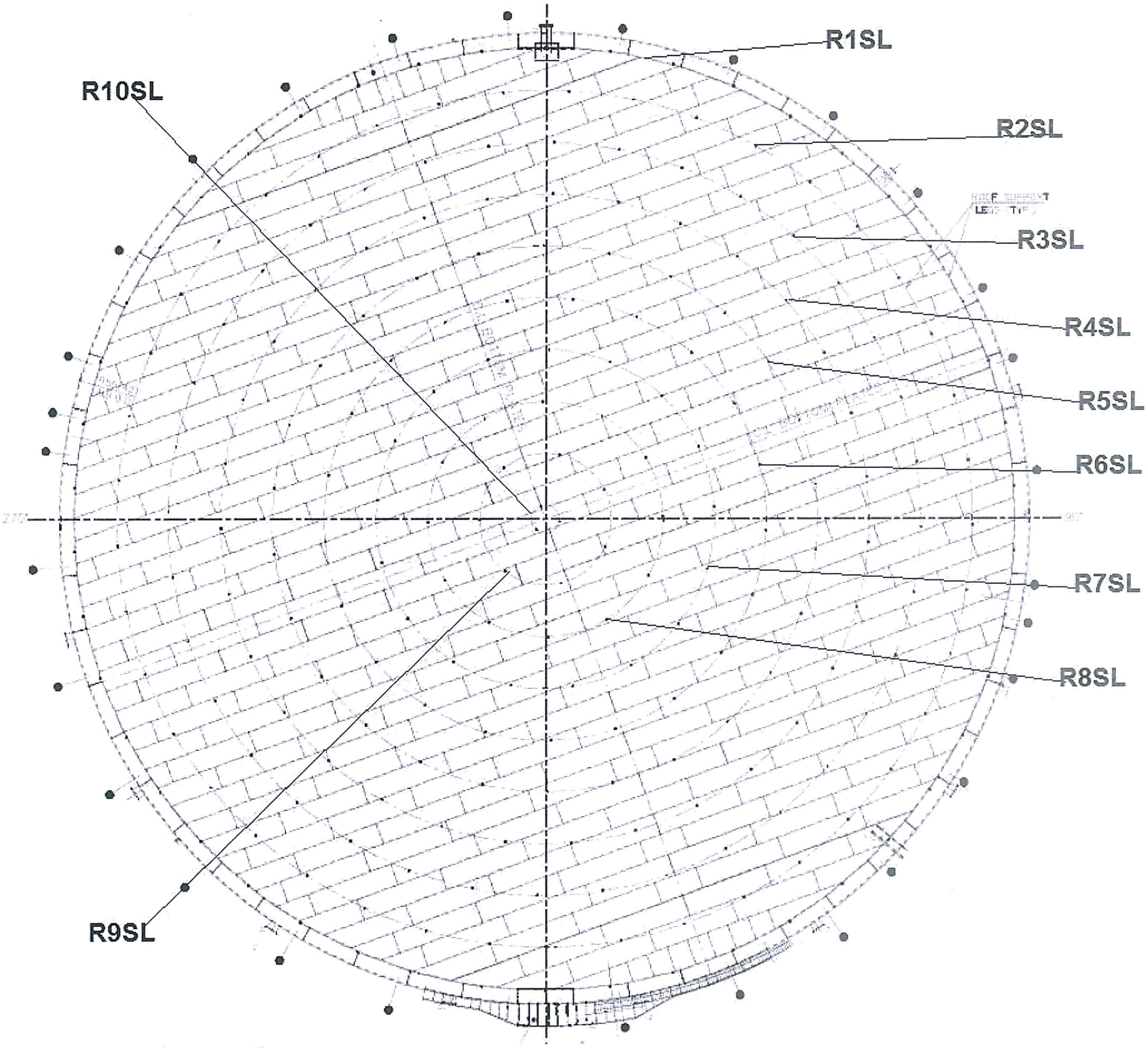
RWR1V1 → RWR1V1V10 → visual check summary

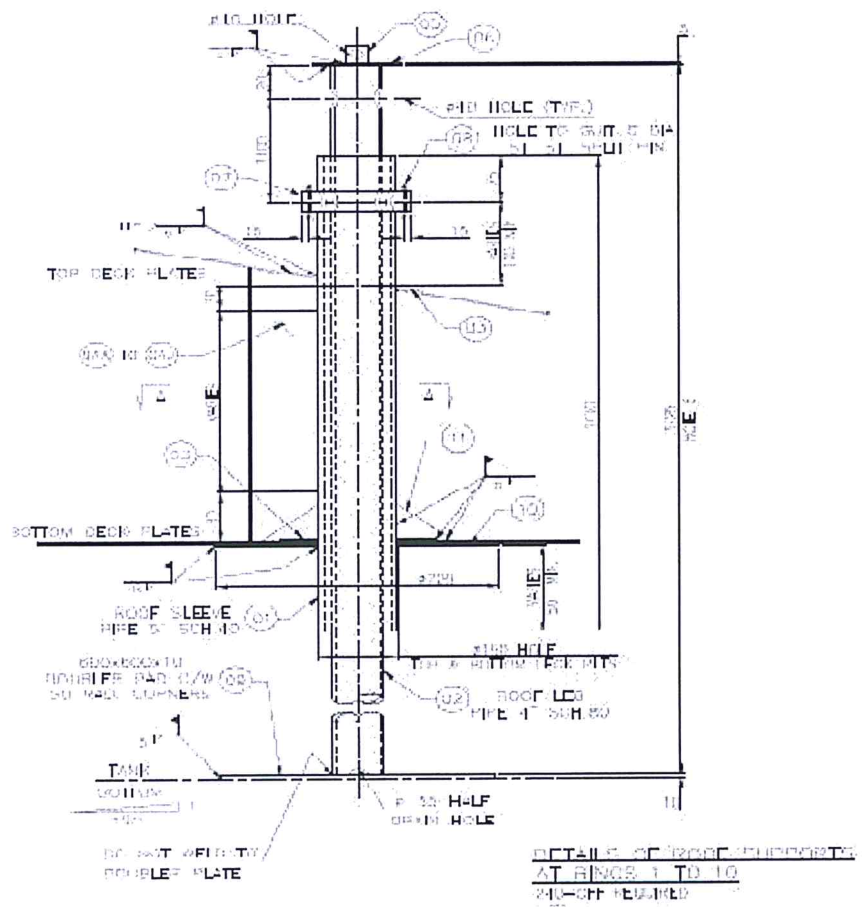
RWR2V1 → RWR1V7 → visual + check summary

RIM VERTICAL JOINT =R V



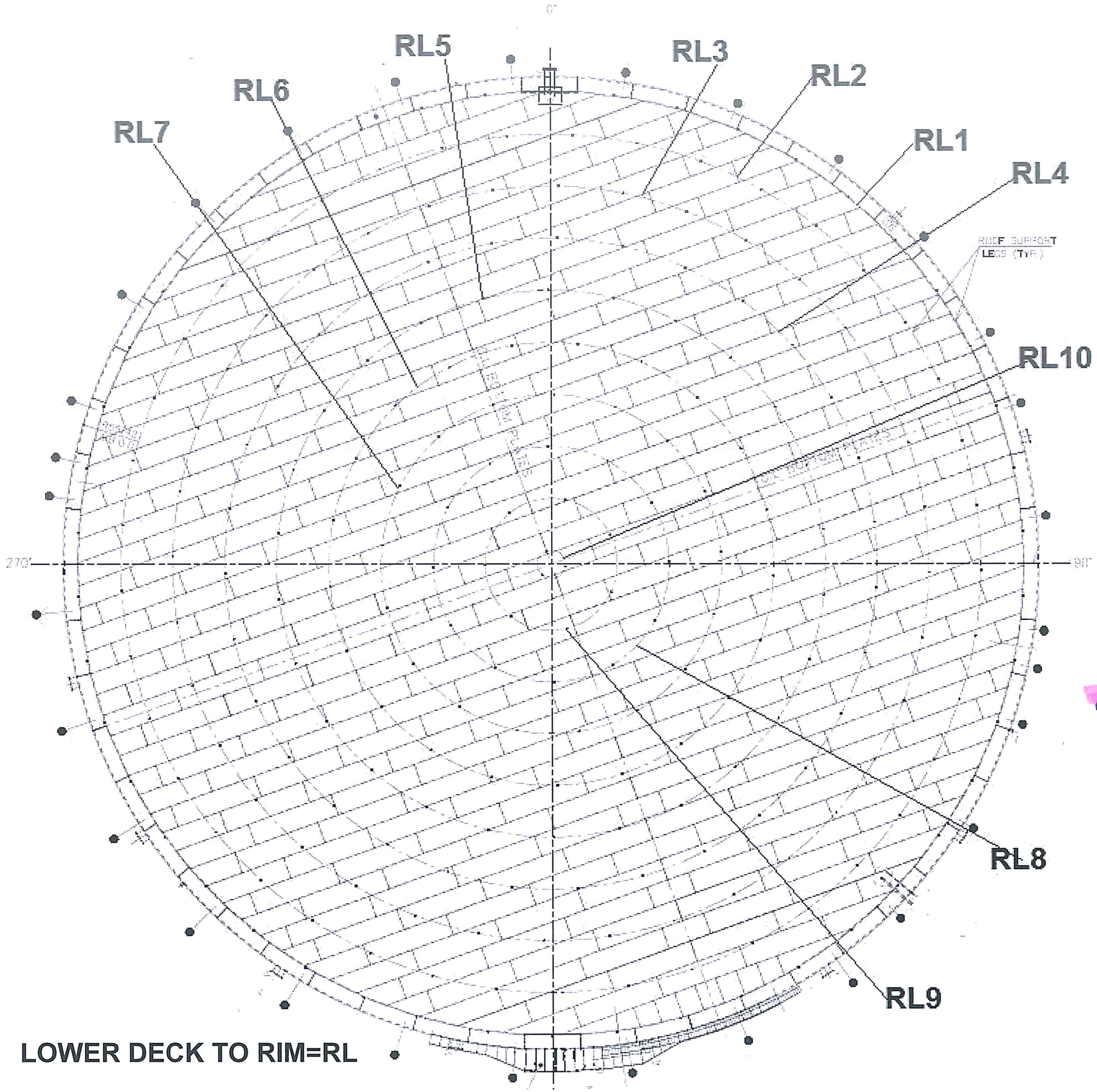
UPPER DECK TO RIM=RU





R1SL1:R1SL46
R2SL1:R2SL41
R3SL1:R3SL36
R4SL1:R4SL31
R5SL1:R5SL26
R6SL1:R6SL21
R7SL1:R7SL17
R8SL1:R8SL12
R9SL1:R9SL7
R10SL1:R10SL3

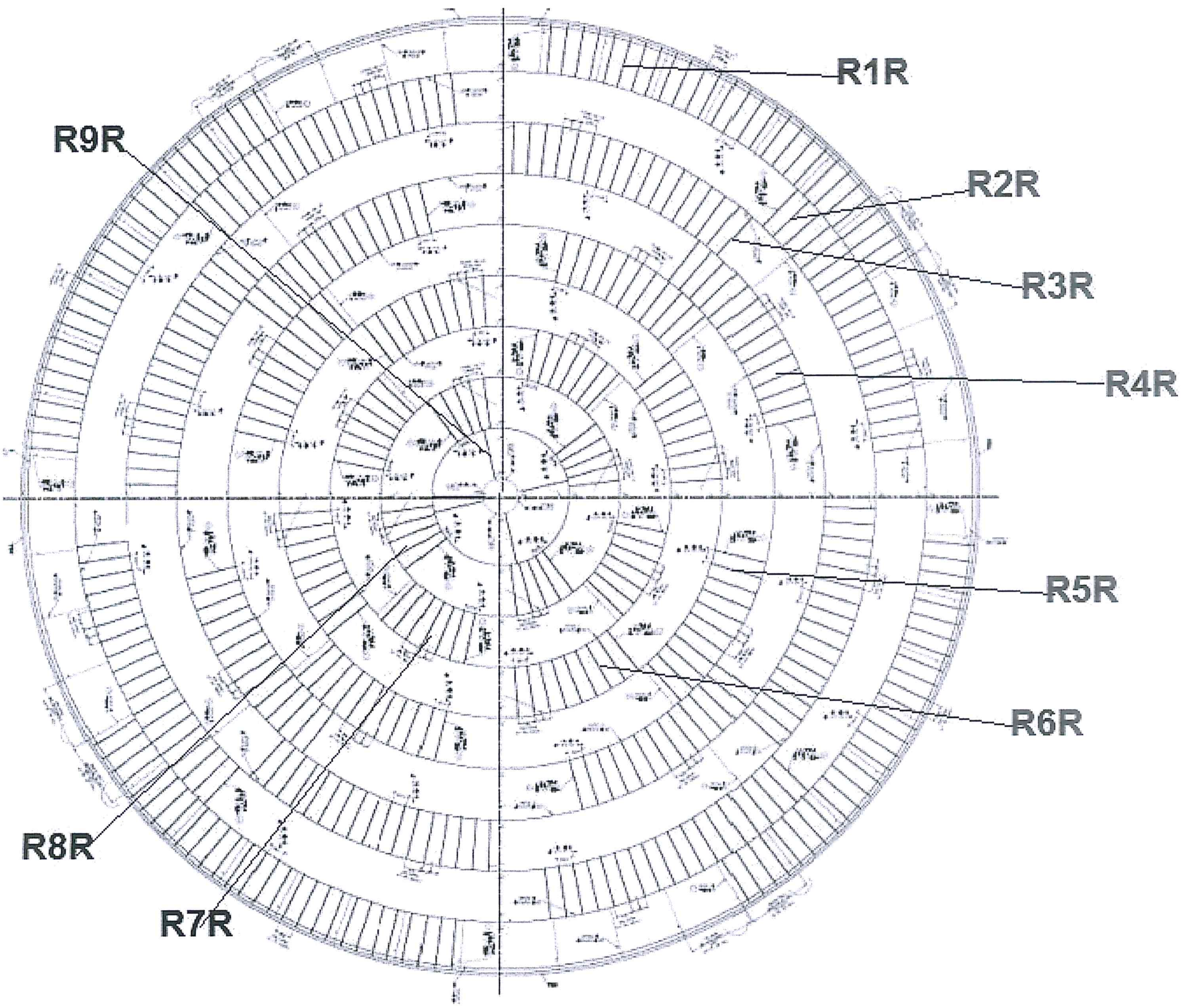
ROOF SUPPORT LEGS JOINT=R SL

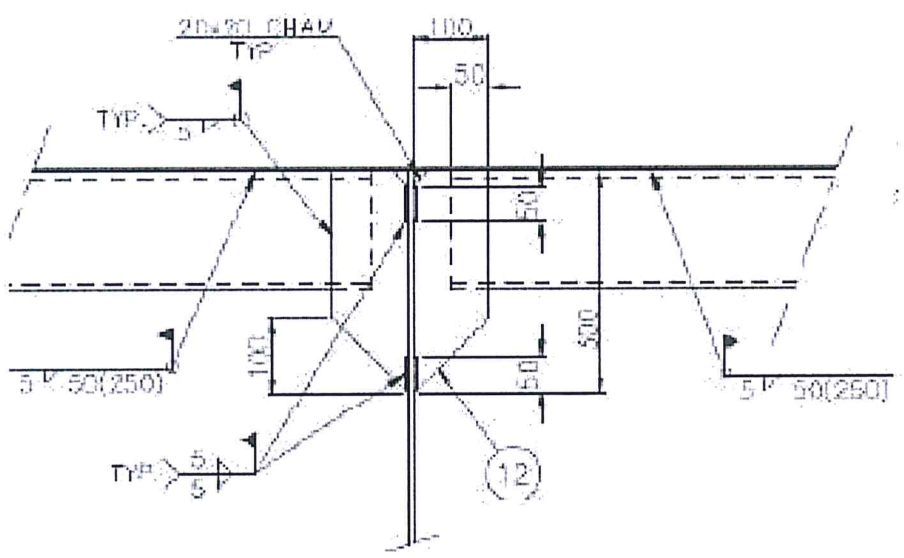


LOWER DECK TO RIM=RL

RwRL1 → visual + check summary

RwRL2 → visual + check summary

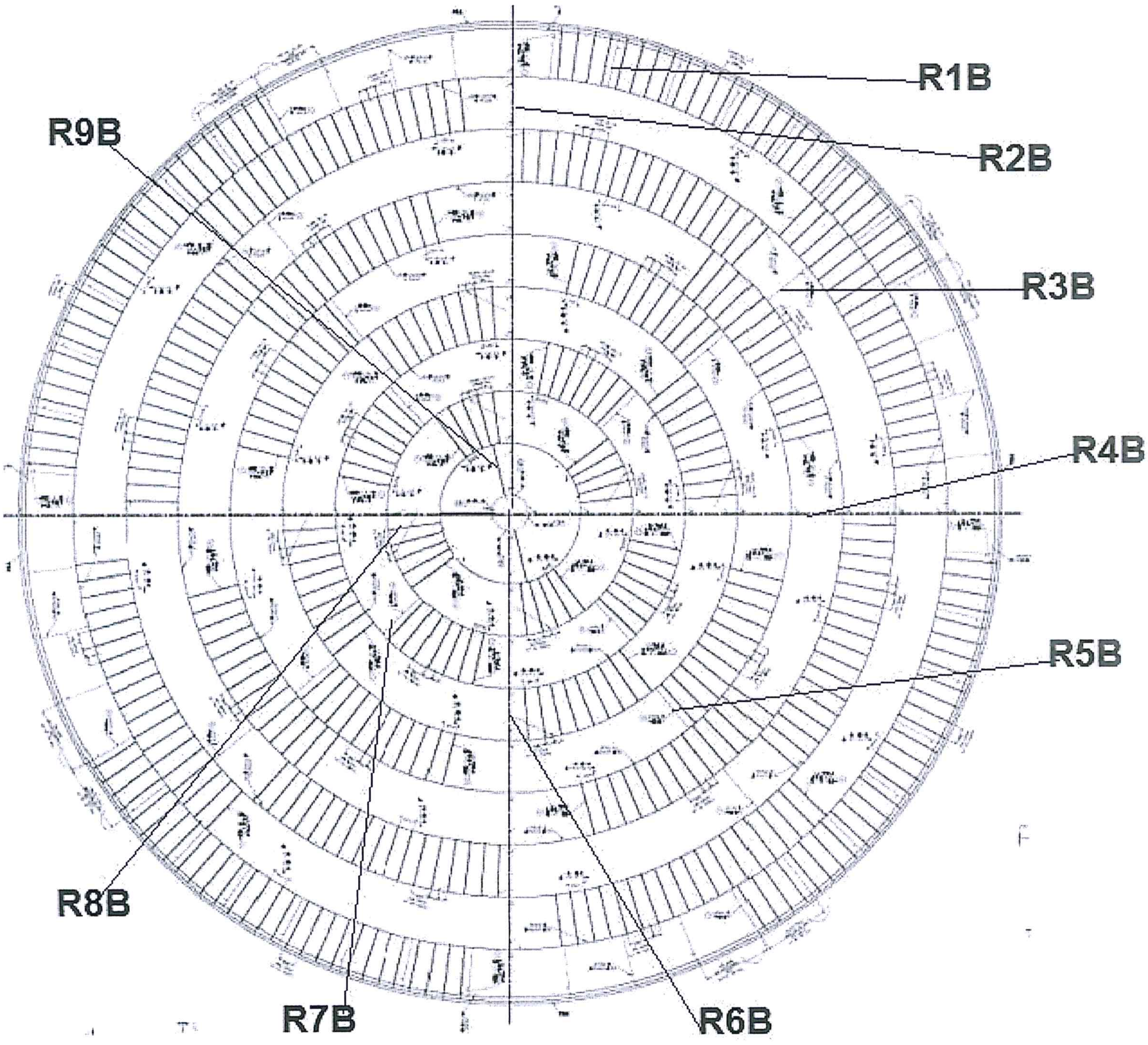


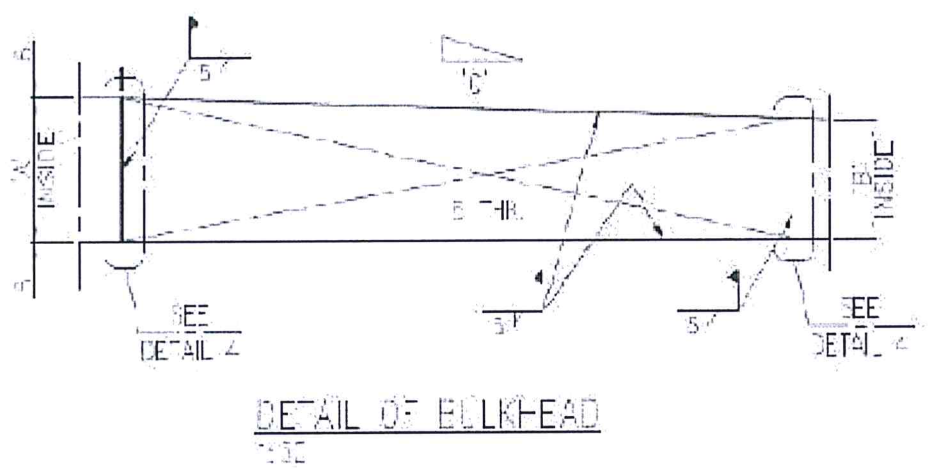


RAFTER TO GUSSET DETAIL
(GUSSET AT BOTH ENDS OF RAFTERS)
1:10

RwR1R → visual + check survey

RIM RAFTER JOINT





R9B1:R9B2
R8B1:R8B2
R7B1:R7B4
R6B1:R6B4
R5B1:R5B4
R4B1:R4B4
R3B1:R3B4
R2B1:R2B4 → RwR2B1
R1B1:R1B46 → RwR1B1 → RwR1B12

visual & check summary

RIM BULKHEAD JOINT=R B

9. VISUAL TEST REPORTS

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 389
DATE 05/03/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RWV103	SM218	SM218	A537CL2	A 537 CL2	10	250	ACC	
2	RWV131	SM218	SM218	A537CL2	A 537 CL2	10	250	ACC	
3	RWV134	SM18	SM18	A537CL2	A 537 CL2	10	250	ACC	
4	V157A	AR30	AR30	A 537 CL1	A 537 CL1	10	250	ACC	
5	V160A	SM13	SM13	A 537 CL1	A 537 CL1	10	250	ACC	
6	RWV159	SM218	SM218	A 537 CL1	A 537 CL1	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 390
DATE 17/05/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RWV185	SM15	SM157	A 537 CL1	A 537 CL1	10	250	ACC	
2	V185A	SM218	SM218	A 537 CL1	A 537 CL1	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 391
DATE 18/05/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RWT202	SM218	SM218	A537CL2	A537CL2	10	250	ACC	
2	RWT203	SM15	SM15	A537CL2	A537CL2	10	250	ACC	
3	T256A	SM13	SM13	A 537 CL1	A537CL1	10	250	ACC	
4	RWT260	SM218	SM218	A 537 CL1	A537CL1	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 393
DATE 25/05/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW V158	SM15	SM103	A 537 CL1	A 537 CL1	10	250	ACC	
2	RW V186	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
3	RWV212	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
4	RWV213	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
5	RWV214	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
6	RWV215	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
7	RWV238	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
8	RWV239	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
9	RWV240	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
10	RWV241	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
11	RWV242	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
12	C04 RW T148	SM103	SM33	A537CL2	A537CL2	10	250	ACC	
13	C04 RW T147-T148	SM103	SM33	A537CL2	A537CL2	10	250	ACC	
14	C04 RW T148-T149	SM103	SM33	A537CL2	A537CL2	10	250	ACC	
15	C05 RW T208	SM103	SM33	A537CL2	A537CL2	10	250	ACC	
16	C05 RW T202-T203	SM33	SM18	A537CL2	A537CL2	10	250	ACC	
17	C05 RW T203-T204	SM33	SM18	A537CL2	A537CL2	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 394
DATE 26/05/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	C06 T262A	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
2	C06 RWT263	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
3	C06 RW T255-T256	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
4	C06 RW T256-T256A	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
5	C06 RW T256A-T257	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
6	C06 RW T257-T258	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
7	C06 RW T258-T259	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
8	C06 RW T259-T260	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
9	C06 RW T260-T261	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
10	C06 RW T263-T264	SM218	SM218	A 537 CL1	A537CL1	10	250	ACC	
11	C07 RW T309	SM128	SM103	A 537 CL1	A537CL1	10	250	ACC	
12	C07 T310A	SM128	SM218	A 537 CL1	A537CL1	10	250	ACC	
13	C07 RW T309	SM128	SM103	A 537 CL1	A537CL1	10	250	ACC	
14	C07 T310B	SM128	SM218	A 537 CL1	A537CL1	10	250	ACC	
15	C07 RWT311	SM18	SM54	A 537 CL1	A537CL1	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 395
DATE 27/05/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	C07 RW T312	SM18	SM54	A 537 CL1	A537CL1	10	250	ACC	
2	C07 RW T313	SM18	SM54	A 537 CL1	A537CL1	10	250	ACC	
3	C07 RW T315	SM18	SM54	A 537 CL1	A537CL1	10	250	ACC	
4	C07RW T313	SM18	SM54	A 537 CL1	A537CL1	10	250	ACC	
5	C07RW T316	SM33	SM103	A 537 CL1	A537CL1	10	250	ACC	
6	C07RW T317	SM33	SM103	A 537 CL1	A537CL1	10	250	ACC	
7	C07 RW T308-T309	SM33	SM103	A 537 CL1	A537CL1	10	250	ACC	
8	C07 RW T309-T310	SM33	SM103	A 537 CL1	A537CL1	10	250	ACC	
9	C07 RW T310-T310A	SM115	SM103	A 537 CL1	A537CL1	10	250	ACC	
10	C07 RW T310A-T310B	SM15	SM103	A 537 CL1	A537CL1	10	250	ACC	
11	C07 RW T310B-T311	SM15	SM103	A 537 CL1	A537CL1	10	250	ACC	
12	C07 RW T311-T312	SM15	SM103	A 537 CL1	A537CL1	10	250	ACC	
13	C07 RW T312-T313	SM15	SM103	A 537 CL1	A537CL1	10	250	ACC	
14	C07 RW T313-T314	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
15	C07 RW T314-T315	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
16	C07 RW T315-T316	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
17	C07 RW T316-T317	SM18	SM33	A 537 CL1	A537CL1	10	250	ACC	
18	C08 RWT365	SM18	SM33	SA283Grc	SA283Grc	10	250	ACC	
19	C08 RWT366	SM18	SM33	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت

Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 396
DATE 28/05/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	C08 RWT366	SM18	SM33	SA283Grc	SA283Grc	10	250	ACC	
2	C08 RW T367	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
3	C08 RW T368	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
4	C08 RW T369	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
5	C08 RW T370	SM15	SM103	SA283Grc	SA283Grc	10	250	ACC	
6	C08 RW T371	SM18	SM33	SA283Grc	SA283Grc	10	250	ACC	
7	C08 RW T364-T365	SM18	SM33	A283GRC	A283GRC	10	250	ACC	
8	C08 RW T365-T366	SM33	SM18	A283GRC	A283GRC	10	250	ACC	
9	C08 RW T366-T367	SM33	SM18	A283GRC	A283GRC	10	250	ACC	
10	C08 RW T367-T367A	SM15	SM18	A283GRC	A283GRC	10	250	ACC	
11	C08 RW T367A-T368	SM33	SM103	A283GRC	A283GRC	10	250	ACC	
12	C08 RW T368-T369	SM33	SM18	A283GRC	A283GRC	10	250	ACC	
13	C08 RW T369-T370	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
14	C08 RW T370-T371	SM103	SM33	A283GRC	A283GRC	10	250	ACC	
15	C08 RW T371-T372	SM103	SM33	A283GRC	A283GRC	10	250	ACC	
16	C09 RW T418	SM103	SM33	SA283Grc	SA283Grc	10	250	ACC	
17	C09 RW T419	SM103	SM33	SA283Grc	SA283Grc	10	250	ACC	
18	C09 RW T420	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
19	C09 RW T421	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
20	C09 RW T422	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 397
DATE 29/05/2021

Weld Process : PTJ-WPS-TK-001/008		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	C09 RW T423	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
2	C09 RW T424	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
3	C09 RW T425	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
4	C09 RW T426	SM33	SM18	SA283Grc	SA283Grc	10	250	ACC	
5	C09 RW T418-T419	SM33	SM18	A283GRC	A283GRC	10	250	ACC	
6	C09 RW T419-T420	SM33	SM18	A283GRC	A283GRC	10	250	ACC	
7	C09 RW T420-T421	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
8	C09 RW T421-T422	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
9	C09 RW T422-T423	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
10	C09 RW T423-T424	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
11	C09 RW T424-T425	SM15	SM103	A283GRC	A283GRC	10	250	ACC	
12	C09 RW T425-T426	SM15	SM18	A283GRC	A283GRC	10	250	ACC	
13	C07 RW T317	SM103	SM128	A 537 CL1	A537CL1	10	250	ACC	
14	C05 RWT209	SM33	SM33	A537CL2	A537CL2	10	250	ACC	
15	C06 RWT257	SM33	SM33	A 537 CL1	A537CL1	10	250	ACC	
16	RW U23	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
17	RW U24	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
18	RW U25	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
19	RW U27	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
20	RW U28	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
21	RW U29	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET   Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 398
DATE 30/05/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U30	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
2	RW U32	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
3	RW U33	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
4	RW U34	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U35	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U37	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U38	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U39	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW U40	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW U41	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW U44	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW U45	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW U46	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
14	RW U47	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
15	RW U48	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
16	RW U50	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
17	RW U51	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
18	RW U52	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
19	RW U53	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW U54	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW U56	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
22	RW U57	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW U58	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW U59	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 399
DATE 31/05/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U60	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW U61	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW U63	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW U64	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U65	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U66	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U67	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U68	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW U72	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW U73	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW U74	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW U75	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW U76	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
14	RW U79	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
15	RW U80	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
16	RW U81	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW U82	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW U83	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW U84	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW U87	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW U88	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW U89	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW U90	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW U91	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET بتروجت Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 400
DATE 01/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U92	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW U93	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW U96	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW U97	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW U98	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW U99	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW U100	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW U104	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
9	RW U105	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
10	RW U106	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
11	RW U107	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
12	RW U108	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
13	RW U113	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
14	RW U114	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
15	RW U115	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW U116	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW U117	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW U118	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW U120	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW U121	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW U122	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW U123	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
23	RW U124	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
24	RW U125	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 401
DATE 02/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U126	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
2	RW U127	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
3	RW U129	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
4	RW U130	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
5	RW U131	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
6	RW U132	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
7	RW U133	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
8	RW U134	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW U135	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW U137	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW U138	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW U139	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW U140	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW U141	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW U142	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
16	RW U143	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
17	RW U144	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
18	RW U146	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
19	RW U147	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
20	RW U148	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
21	RW U149	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW U150	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
23	RW U151	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW U152	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 402
DATE 02/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U153	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW U155	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW U156	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW U157	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U158	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U159	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U160	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U161	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW U162	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW U165	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW U166	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW U167	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
13	RW U168	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
14	RW U169	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
15	RW U170	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
16	RW U171	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW U174	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW U175	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW U176	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW U177	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW U184	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW U185	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW U186	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW U193	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 403
DATE 03/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U194	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
2	RW U195	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
3	RW U196	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
4	RW U197	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
5	RW U198	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
6	RW U199	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
7	RW U203	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
8	RW U204	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
9	RW U205	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
10	RW U208	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
11	RW U209	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
12	RW U212	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
13	RW U213	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
14	RW U214	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
15	RW U216	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW U217	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW U218	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW U220	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW U223	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW U224	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW U225	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW U226	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
23	RW U227	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
24	RW U228	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

PTJ-QAQC-F 10

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 404
DATE 03/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U229	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
2	RW U230	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
3	RW U233	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
4	RW U234	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
5	RW U235	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
6	RW U237	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
7	RW U238	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
8	RW U239	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
9	RW U244	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
10	RW U245	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
11	RW U246	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
12	RW U247	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
13	RW U248	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
14	RW U249	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW U251	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
16	RW U252	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
17	RW U254	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
18	RW U255	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
19	RW U256	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW U257	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW U258	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
22	RW U259	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW U260	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW U262	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET · Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 405
DATE 04/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U263	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW U264	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW U265	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW U266	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U267	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U269	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U270	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U272	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
9	RW U273	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
10	RW U274	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
11	RW U275	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
12	RW U276	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
13	RW U277	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
14	RW U279	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
15	RW U280	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
16	RW U281	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW U283	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW U284	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW U286	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW U287	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW U288	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW U289	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW U293	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW U294	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 406
DATE 04/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U296	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW U297	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW U298	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW U300	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW U301	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
6	RW U304	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
7	RW U305	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
8	RW U307	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW U308	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW U309	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW U311	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW U312	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW U314	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW U315	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
15	RW U317	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
16	RW U318	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
17	RW U320	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
18	RW U321	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
19	RW U322	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW U323	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW U324	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
22	RW U328	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW U329	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW U330	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 407
DATE 05/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U331	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW U332	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW U333	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW U334	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U335	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U338	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U339	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U340	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW U341	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW U342	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW U343	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW U344	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW U345	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
14	RW U346	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW U349	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
16	RW U350	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
17	RW U351	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
18	RW U352	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
19	RW U353	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
20	RW U354	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
21	RW U355	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW U356	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
23	RW U359	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
24	RW U360	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 408
DATE 05/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U361	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
2	RW U362	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
3	RW U363	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
4	RW U364	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
5	RW U365	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
6	RW U366	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
7	RW U367	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
8	RW U370	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
9	RW U371	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
10	RW U372	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
11	RW U373	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
12	RW U374	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
13	RW U375	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
14	RW U376	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW U377	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW U380	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW U381	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW U382	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW U383	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW U384	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW U385	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW U386	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
23	RW U387	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
24	RW U388	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 409
DATE 06/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U392	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
2	RW U393	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
3	RW U394	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
4	RW U395	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
5	RW U396	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
6	RW U397	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
7	RW U398	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
8	RW U402	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
9	RW U403	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
10	RW U404	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
11	RW U405	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
12	RW U406	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
13	RW U407	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
14	RW U408	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
15	RW U412	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
16	RW U413	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW U414	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW U415	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW U416	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW U417	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW U421	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW U422	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW U423	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW U424	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 410
DATE 06/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U425	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW U426	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW U427	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW U431	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW U432	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW U433	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW U434	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW U435	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
9	RW U436	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
10	RW U440	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
11	RW U441	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
12	RW U442	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
13	RW U443	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
14	RW U444	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
15	RW U445	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
16	RW U449	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW U450	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW U451	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW U452	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW U453	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW U454	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW U458	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW U459	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW U460	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET — Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 411
DATE 07/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U461	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW U462	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW U463	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW U466	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW U467	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW U468	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW U469	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW U470	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
9	RW U471	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
10	RW U472	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
11	RW U474	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW U475	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW U476	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW U477	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
15	RW U478	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
16	RW U480	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
17	RW U481	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
18	RW U484	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
19	RW U485	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
20	RW U486	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
21	RW U487	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
22	RW U488	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
23	RW U492	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

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CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 412
DATE 07/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U493	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
2	RW U494	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
3	RW U495	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
4	RW U496	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
5	RW U501	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
6	RW U502	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
7	RW U503	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
8	RW U504	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW U505	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW U508	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW U510	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW U511	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW U512	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
14	RW U514	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW U515	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
16	RW U517	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
17	RW U518	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
18	RW U519	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
19	RW U525	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
20	RW U526	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
21	RW U527	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW U529	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW U530	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW U532	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

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CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 413
DATE 08/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U533	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW U534	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW U535	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW U540	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW U541	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW U543	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW U544	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW U545	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW U547	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW U548	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW U549	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW U553	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW U554	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
14	RW U555	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
15	RW U556	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
16	RW U560	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW U561	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW U563	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW U564	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW U566	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW U567	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW U568	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
23	RW U571	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
24	RW U572	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 414
DATE 08/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW U573	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
2	RW U576	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
3	RW U577	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
4	RW U578	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
5	RW U580	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
6	RW U581	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
7	RW U582	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
8	RW U583	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW L32	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW L33	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW L35	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW L40	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW L41	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW L42	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
15	RW L47	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
16	RW L48	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
17	RW L49	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW L53	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW L54	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW L55	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW L56	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW L57	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW L58	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW L60	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 415
DATE 08/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L61	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW L62	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW L75	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW L76	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW L77	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW L105	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW L106	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW L107	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW L108	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW L113	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW L114	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW L115	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW L116	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
14	RW L154	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
15	RW L155	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
16	RW L156	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
17	RW L157	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
18	RW L163	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
19	RW L164	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW L165	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW L166	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW L168	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
23	RW L169	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
24	RW L170	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 416
DATE 09/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L178	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
2	RW L179	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
3	RW L187	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
4	RW L188	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
5	RW L197	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
6	RW L198	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
7	RW L205	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
8	RW L206	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
9	RW L207	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
10	RW L214	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
11	RW L215	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
12	RW L216	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
13	RW L217	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
14	RW L223	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
15	RW L224	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW L225	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW L233	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW L234	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW L235	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW L257	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW L258	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW L259	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW L260	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW L261	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 417
DATE 09/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L262	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW L263	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW L268	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW L269	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW L270	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW L271	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW L272	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW L273	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW L274	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW L275	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW L276	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW L277	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW L278	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW L280	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
15	RW L281	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
16	RW L282	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
17	RW L283	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
18	RW L284	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
19	RW L285	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW L286	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW L287	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
22	RW L288	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW L289	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW L290	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET بتروجت

Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 418
DATE 09/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L291	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW L292	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW L293	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW L294	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW L295	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW L296	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW L297	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW L298	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW L299	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW L300	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW L301	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW L302	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW L303	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
14	RW L304	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
15	RW L305	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
16	RW L306	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
17	RW L307	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
18	RW L308	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
19	RW L309	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
20	RW L310	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
21	RW L311	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
22	RW L312	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
23	RW L313	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
24	RW L314	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 419
DATE 10/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no.						
		1	2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L315	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
2	RW L320	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
3	RW L321	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
4	RW L322	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
5	RW L323	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
6	RW L324	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
7	RW L327	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
8	RW L328	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
9	RW L329	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
10	RW L331	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
11	RW L332	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
12	RW L337	FC12	FC12	SA283Grc	SA283Grc	10	250	ACC	
13	RW L338	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
14	RW L339	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
15	RW L340	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW L351	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW L352	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW L353	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW L361	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW L362	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW L363	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW L364	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
23	RW L374	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
24	RW L375	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 420
DATE 10/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L376	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
2	RW L382	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
3	RW L383	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
4	RW L385	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
5	RW L386	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
6	RW L387	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
7	RW L388	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
8	RW L390	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
9	RW L391	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
10	RW L392	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
11	RW L393	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
12	RW L395	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
13	RW L396	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
14	RW L397	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
15	RW L398	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
16	RW L401	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
17	RW L402	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
18	RW L404	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
19	RW L405	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
20	RW L406	FC02	FC02	SA283Grc	SA283Grc	10	250	ACC	
21	RW L407	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
22	RW L409	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
23	RW L412	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
24	RW L419	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 421
DATE 10/06/2021

Weld Process : PTJ-WPS-TK-008 | FCAW

Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material Classification: Material 1	Material Classification: Material 2	during welding: Minimum Preheating Temp.C°	during welding: Max. Interpass Temp.C°	After welding: Appearance	After welding: Remarks
1	RW L420	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
2	RW L421	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
3	RW L428	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
4	RW L429	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
5	RW L430	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
6	RW L434	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
7	RW L438	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
8	RW L439	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
9	RW L447	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
10	RW L448	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
11	RW L449	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
12	RW L450	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
13	RW L451	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
14	RW L456	FC05	FC05	SA283Grc	SA283Grc	10	250	ACC	
15	RW L457	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW L458	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
17	RW L459	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
18	RW L461	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
19	RW L462	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
20	RW L463	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
21	RW L469	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
22	RW L470	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
23	RW L471	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
24	RW L478	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D99-004
Applicable Code / Specification : API 650, ADD 11

Report no 422
DATE 10/06/2021

Weld Process : PTJ-WPS-TK-008			FCAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L479	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
2	RW L507	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
3	RW L508	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
4	RW L509	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
5	RW L510	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
6	RW L516	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
7	RW L517	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
8	RW L518	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
9	RW L519	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
10	RW L524	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
11	RW L525	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
12	RW L526	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
13	RW L527	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
14	RW L531	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
15	RW L532	FC11	FC11	SA283Grc	SA283Grc	10	250	ACC	
16	RW L533	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
17	RW L534	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
18	RW L535	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
19	RW L547	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
20	RW L548	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
21	RW L549	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
22	RW L550	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
23	RW L554	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
24	RW L555	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC

Consortium : PTJ/ENPPI

TANK NO.: 031-T-01

DRW no : 1251-100-116-02-XX-D99-004

Applicable Code / Specification : API 650, ADD 11

Report no 423

DATE 11/06/2021

Weld Process : PTJ-WPS-TK-008		FCAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW L560	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
2	RW L561	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
3	RW L562	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
4	RW L570	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
5	RW L571	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
6	RW L572	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
7	RW L573	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
8	RW L575	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
9	RW L576	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	
10	RW L577	FC20	FC20	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 424
DATE 05/06/2021

Weld Process : PTJ-WPS-TK-001/008		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RWV157	SM33	SM103	A 537 CL1	A 537 CL1	10	250	ACC	
2	RWV160	SM33	SM103	A 537 CL1	A 537 CL1	10	250	ACC	
3	RW C05 T201-T202	SM33	SM18	A537CL2	A537CL2	10	250	ACC	
4	C05 T208-T209	SM15	SM15	A537CL2	A537CL2	10	250	ACC	
5	C06 RW T256	SM15	SM18	A 537 CL1	A537CL1	10	250	ACC	
6	C06 RW T258	SM18	SM15	A 537 CL1	A537CL1	10	250	ACC	
7	C06 RW T262	SM18	SM15	A 537 CL1	A537CL1	10	250	ACC	
8	C06 RW T262-T262A	SM18	SM18	A 537 CL1	A537CL1	10	250	ACC	
9	C06 RW T262A-T263	SM18	SM18	A 537 CL1	A537CL1	10	250	ACC	
10	C07 RW T310	SM18	SM15	A 537 CL1	A537CL1	10	250	ACC	
11	C07 RWT314	SM103	SM33	A 537 CL1	A537CL1	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-030
Applicable Code / Specification : API 650, ADD 11

Report no 425
DATE 12/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RWSS19	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
2	RWSS20	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
3	RWSS21	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
4	RWSS22	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
5	RWSS23	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
6	RWSS24	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
7	RWSS25	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	
8	RWSS26	SM67 SM29	SM60/ SM33	A573CL2	ST44-2	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 426
DATE 12/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW PWG83	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
2	RW PWG84	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
3	RW PWG85	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
4	RW PWG86	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
5	RW PWG87	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
6	RW PWG88	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
7	RW PWG89	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
8	RW PWG90	SM19	SM148	ST44-2	A283 GR.C	10	250	ACC	
9	RW PWG91	SM19	SM148	ST44-2	A283 GR.C	10	250	ACC	
10	RW PWG92	SM19	SM148	ST44-2	A283 GR.C	10	250	ACC	
11	RW PWG93	SM19	SM148	ST44-2	A283 GR.C	10	250	ACC	
12	RW PWG94	SM19	SM148	ST44-2	A283 GR.C	10	250	ACC	
13	RW PWG95	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
14	RW PWG96	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
15	RW PWG97	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
16	RW PWG98	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
17	RW PWG99	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
18	RW PWG100	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
19	RW PWG101	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	
20	RW PWG102	SM210	SM197	ST44-2	A283 GR.C	10	250	ACC	

	PETROJET	ENPPI	PMC (R)
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 427
DATE 13/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW SWG83	SM212	SM85	ST44-2	A283 GR.C	10	250	ACC	
2	RW SWG84	SM212	SM85	ST44-2	A283 GR.C	10	250	ACC	
3	RW SWG85	SM212	SM85	ST44-2	A283 GR.C	10	250	ACC	
4	RW SWG86	SM212	SM85	ST44-2	A283 GR.C	10	250	ACC	
5	RW SWG87	SM212	SM85	ST44-2	A283 GR.C	10	250	ACC	
6	RW SWG88	SM145	SM24	ST44-2	A283 GR.C	10	250	ACC	
7	RW SWG89	SM145	SM24	ST44-2	A283 GR.C	10	250	ACC	
8	RW SWG90	SM145	SM24	ST44-2	A283 GR.C	10	250	ACC	
9	RW SWG91	SM145	SM24	ST44-2	A283 GR.C	10	250	ACC	
10	RW SWG92	SM145	SM24	ST44-2	A283 GR.C	10	250	ACC	
11	RW SWG93	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
12	RW SWG94	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
13	RW SWG95	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
14	RW SWG96	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
15	RW SWG97	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
16	RW SWG98	SM170	SM194	ST44-2	A283 GR.C	10	250	ACC	
17	RW SWG99	SM148	SM90	ST44-2	A283 GR.C	10	250	ACC	
18	RW SWG100	SM148	SM90	ST44-2	A283 GR.C	10	250	ACC	
19	RW SWG101	SM148	SM90	ST44-2	A283 GR.C	10	250	ACC	
20	RW SWG102	SM148	SM90	ST44-2	A283 GR.C	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no 428
DATE 13/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW CR1	AR117	SM217	A283 GR.C	ST44-2	10	250	ACC	
2	RW CR2	AR117	SM217	A283 GR.C	ST44-2	10	250	ACC	
3	RW CR3	AR117	SM217	A283 GR.C	ST44-2	10	250	ACC	
4	RW CR4	AR117	SM217	A283 GR.C	ST44-2	10	250	ACC	
5	RW CR5	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	
6	RW CR6	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	
7	RW CR7	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	
8	RW CR8	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	
9	RW CR9	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	
10	RW CR10	SM20	SM19	A283 GR.C	ST44-2	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC	CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT	PETROJET	Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 429
DATE 15/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW PWG1	SM03	SM05	ST44-2	A283 GR.C	10	250	ACC	
2	RW PWG2	SM03	SM05	ST44-2	A283 GR.C	10	250	ACC	
3	RW PWG3	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
4	RW PWG4	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
5	RW PWG5	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
6	RW PWG6	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
7	RW PWG7	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
8	RW PWG8	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
9	RW PWG9	SM148	SM145	ST44-2	A283 GR.C	10	250	ACC	
10	RW PWG10	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
11	RW PWG11	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
12	RW PWG12	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
13	RW PWG13	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
14	RW PWG14	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
15	RW PWG15	SM90	SM30	ST44-2	A283 GR.C	10	250	ACC	
16	RW PWG16	SM06	SM07	ST44-2	A283 GR.C	10	250	ACC	
17	RW PWG17	SM06	SM07	ST44-2	A283 GR.C	10	250	ACC	
18	RW PWG18	SM06	SM07	ST44-2	A283 GR.C	10	250	ACC	
19	RW PWG19	SM06	SM07	ST44-2	A283 GR.C	10	250	ACC	
20	RW PWG20	SM06	SM07	ST44-2	A283 GR.C	10	250	ACC	
21	RW SWG1	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
22	RW SWG2	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
23	RW SWG3	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	
24	RW SWG4	SM81	SM03	ST44-2	A283 GR.C	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET

Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-039
Applicable Code / Specification : API 650, ADD 11

Report no 430
DATE 15/06/2021

Weld Process : PTJ-WPS-P-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW N8W1	P58	P58	A106 GR B	A105	10	250	ACC	
2	RW N8W2	P58	P58	A106 GR B	A106 GR B	10	250	ACC	
3	RW N8W3	P58	P58	A106 GR B	A106 GR B	10	250	ACC	
4	RW N8W4	P58	P58	A106 GR B	A106 GR B	10	250	ACC	
5	RW N8W5	P58	P58	A106 GR B	A106 GR B	10	250	ACC	
6	RWN9W1	P60	P22	A106 GR B	A105	10	250	ACC	
7	RWN9W2	P60	P22	A106 GR B	A106 GR B	10	250	ACC	
8	RW N10W1	R35	P31	A106 GR B	A105	10	250	ACC	
9	RW N10W2	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
10	RW N10W3	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
11	RW N10W4	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
12	RW N10W5	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
13	RW N10W6	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
14	RW N10W7	R35	P31	A106 GR B	A106 GR B	10	250	ACC	
15	RW N11W1	P60	P12	A106 GR B	A105	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-016
Applicable Code / Specification : API 650, ADD 11

Report no 431
DATE 16/06/2021

Weld Process : PTJ-WPS-P-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW N12W1	P20	P31	A106 GR B	A105	10	250	ACC	
2	RW N12W2	P37	P58	A106 GR B	A106 GR B	10	250	ACC	
3	RW N12W3	P105	P20	A106 GR B	A106 GR B	10	250	ACC	
4	RW N12W4	P37	P58	A106 GR B	A106 GR B	10	250	ACC	
5	RW N12W5	P37	P58	A106 GR B	A106 GR B	10	250	ACC	
6	RW N12W6	P20	P31	A106 GR B	A106 GR B	10	250	ACC	
7	RW N13W1	R35	R35	A106 GR B	A105	10	250	ACC	
8	RW N13W2	R35	R35	A106 GR B	A106 GR B	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-024
Applicable Code / Specification : API 650, ADD 11

Report no 432
DATE 16/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW FD W1	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
2	RW FD W2	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
3	RW FD W3	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
4	RW FD W4	SM33	SM33	SA283Grc	ST.44	10	250	ACC	
5	RW FD W5	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
6	RW FD W6	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
7	RW FD W7	SM33	SM33	SA283Grc	SA283Grc	10	250	ACC	
8	RW FD W8	SM13	SM13	SA283Grc	ST.44	10	250	ACC	
9	RW FD W9	SM13	SM13	SA283Grc	SA283Grc	10	250	ACC	
10	RW FD W10	SM13	SM13	SA283Grc	SA283Grc	10	250	ACC	
11	RW FD W11	SM13	SM13	SA283Grc	SA283Grc	10	250	ACC	
12	RW FD W12	SM13	SM13	SA283Grc	ST.44	10	250	ACC	
13	RW FD W13	SM13	SM13	SA283Grc	SA283Grc	10	250	ACC	
14	RW FD W14	SM13	SM13	SA283Grc	SA283Grc	10	250	ACC	
15	RW FD W15	SM148	SM148	SA283Grc	ST.44	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-024
Applicable Code / Specification : API 650, ADD 11

Report no 433
DATE 17/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW FDS W1	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
2	RW FDS W2	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
3	RW FDS W3	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
4	RW FDS W4	SM148	SM148	SA283Grc	ST.44	10	250	ACC	
5	RW FDS W5	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
6	RW FDS W6	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
7	RW FDS W7	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
8	RW FDS W8	SM148	SM148	SA283Grc	ST.44	10	250	ACC	
9	RW FDS W9	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
10	RW FDS W10	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
11	RW FDS W11	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
12	RW FDS W12	SM148	SM148	SA283Grc	ST.44	10	250	ACC	
13	RW FDS W13	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
14	RW FDS W14	SM132	SM210	SA283Grc	SA283Grc	10	250	ACC	
15	RW FDS W15	SM132	SM210	SA283Grc	ST.44	10	250	ACC	
16	RW FDS W16	SM132	SM210	SA283Grc	SA283Grc	10	250	ACC	
17	RW FDS W17	SM132	SM210	SA283Grc	SA283Grc	10	250	ACC	
18	RW FDS W18	SM132	SM210	SA283Grc	ST.44	10	250	ACC	
19	RW FDS W19	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
20	RW FDS W20	SM148	SM148	SA283Grc	SA283Grc	10	250	ACC	
21	RW FDS W21	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	
22	RW FDS W22	SM10	SM10	SA283Grc	ST.44	10	250	ACC	
23	RW FDS W23	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	
24	RW FDS W24	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 434
DATE 18/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R1SL1	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
2	RW R1SL2	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
3	RW R1SL3	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
4	RW R1SL4	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
5	RW R1SL5	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
6	RW R1SL6	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
7	RW R1SL7	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
8	RW R1SL8	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
9	RW R1SL9	SM03	SM03	A283GrC	A283GrC	10	250	ACC	
10	RW R1SL10	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
11	RW R1SL11	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
12	RW R1SL12	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
13	RW R1SL13	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
14	RW R1SL14	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
15	RW R1SL15	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
16	RW R1SL16	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
17	RW R1SL17	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
18	RW R1SL18	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
19	RW R1SL19	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
20	RW R1SL20	SM145	SM145	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 435
DATE 18/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R1SL21	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
2	RW R1SL22	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
3	RW R1SL23	SM145	SM145	A283GrC	A283GrC	10	250	ACC	
4	RW R1SL24	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
5	RW R1SL25	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
6	RW R1SL26	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
7	RW R1SL27	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
8	RW R1SL28	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
9	RW R1SL29	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
10	RW R1SL30	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
11	RW R1SL31	SM67	SM67	A283GrC	A283GrC	10	250	ACC	
12	RW R1SL32	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
13	RW R1SL33	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
14	RW R1SL34	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
15	RW R1SL35	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
16	RW R1SL36	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
17	RW R1SL37	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
18	RW R1SL38	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
19	RW R1SL39	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
20	RW R1SL40	SM05	SM05	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 436
DATE 19/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R2SL1	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
2	RW R2SL2	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
3	RW R2SL3	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
4	RW R2SL4	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
5	RW R2SL5	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
6	RW R2SL6	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
7	RW R2SL7	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
8	RW R2SL8	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
9	RW R2SL9	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
10	RW R2SL10	SM10	SM10	A283GrC	A283GrC	10	250	ACC	
11	RW R2SL11	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
12	RW R2SL12	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
13	RW R2SL13	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
14	RW R2SL14	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
15	RW R2SL15	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
16	RW R2SL16	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
17	RW R2SL17	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
18	RW R2SL18	SM18	SM18	A283GrC	A283GrC	10	250	ACC	
19	RW R2SL19	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
20	RW R2SL20	SM06	SM06	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 437
DATE 19/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R2SL21	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
2	RW R2SL22	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
3	RW R2SL23	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
4	RW R2SL24	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
5	RW R2SL25	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
6	RW R2SL26	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
7	RW R2SL27	SM06	SM06	A283GrC	A283GrC	10	250	ACC	
8	RW R2SL28	SM12	SM12	A283GrC	A283GrC	10	250	ACC	
9	RW R2SL29	SM12	SM12	A283GrC	A283GrC	10	250	ACC	
10	RW R2SL30	SM12	SM12	A283GrC	A283GrC	10	250	ACC	
11	RW R3SL1	SM34	SM34	A283GrC	A283GrC	10	250	ACC	
12	RW R3SL2	SM34	SM34	A283GrC	A283GrC	10	250	ACC	
13	RW R3SL3	SM34	SM34	A283GrC	A283GrC	10	250	ACC	
14	RW R3SL4	SM34	SM34	A283GrC	A283GrC	10	250	ACC	
15	RW R3SL5	SM34	SM34	A283GrC	A283GrC	10	250	ACC	
16	RW R3SL6	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
17	RW R3SL7	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
18	RW R3SL8	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
19	RW R3SL9	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
20	RW R3SL10	SM60	SM60	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 438
DATE 19/06/2021

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R3SL11	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
2	RW R3SL12	SM60	SM60	A283GrC	A283GrC	10	250	ACC	
3	RW R3SL13	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
4	RW R3SL14	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
5	RW R3SL15	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
6	RW R3SL16	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
7	RW R3SL17	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
8	RW R3SL18	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
9	RW R3SL19	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
10	RW R3SL20	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
11	RW R3SL21	SM37	SM37	A283GrC	A283GrC	10	250	ACC	
12	RW R3SL22	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
13	RW R3SL23	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
14	RW R3SL24	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
15	RW R3SL25	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
16	RW R3SL26	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
17	RW R3SL27	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
18	RW R3SL28	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
19	RW R3SL29	SM05	SM05	A283GrC	A283GrC	10	250	ACC	
20	RW R3SL30	SM08	SM08	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 01251-100-116-02-XX-D99-003
Applicable Code / Specification : API 650, ADD 11

Report no 439
DATE 20/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R4SL1	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
2	RW R4SL2	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
3	RW R4SL3	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
4	RW R4SL4	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
5	RW R4SL5	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
6	RW R4SL6	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
7	RW R4SL7	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
8	RW R4SL8	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
9	RW R4SL9	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
10	RW R4SL10	SM148	SM148	A283GrC	A283GrC	10	250	ACC	
11	RW R4SL11	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
12	RW R4SL12	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
13	RW R4SL13	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
14	RW R4SL14	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
15	RW R4SL15	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
16	RW R4SL16	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
17	RW R4SL17	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
18	RW R4SL18	SM08	SM08	A283GrC	A283GrC	10	250	ACC	
19	RW R4SL19	SM157	SM157	A283GrC	A283GrC	10	250	ACC	
20	RW R4SL20	SM157	SM157	A283GrC	A283GrC	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :			
Date :			

CRUDE OIL TANK FARM PROJECT (AGROODAREA)
VISUAL INSPECTION REPORT

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-10011-116-02-XX-D99-002
Applicable Code / Specification : API 650, ADD 11

Report no 440
DATE 21/06/2021

Weld Process : PTJ-WPS-TK-001		SMAW		Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R1V1	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
2	RW R1V2	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
3	RW R1V3	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
4	RW R1V4	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
5	RW R1V5	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
6	RW R1V6	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
7	RW R1V7	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
8	RW R1V8	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
9	RW R1V9	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
10	RW R1V10	AR38	AR25	SA283Grc	SA283Grc	10	250	ACC	
11	RW R2V1	SM15	SM33	SA283Grc	SA283Grc	10	250	ACC	
12	RW R2V2	SM67	SM67	SA283Grc	SA283Grc	10	250	ACC	
13	RW R2V3	SM67	SM67	SA283Grc	SA283Grc	10	250	ACC	
14	RW R2V4	SM67	SM33	SA283Grc	SA283Grc	10	250	ACC	
15	RW R2V5	SM67	SM67	SA283Grc	SA283Grc	10	250	ACC	
16	RW R2V6	SM67	SM67	SA283Grc	SA283Grc	10	250	ACC	
17	RW R2V7	SM67	SM67	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

EGPC	CRUDE OIL TANK FARM PROJECT (AGROODAREA) VISUAL INSPECTION REPORT	PETROJET / Enppi

Client : EGPC

Consortium : PTJ/ENPPI

TANK NO.: 031-T-01 — Report no 441

DRW no : 1251-10011-116-02-XX-D99-002 — DATE 21/06/2021

Applicable Code / Specification : API 650, ADD 11

Weld Process : PTJ-WPS-TK-001			SMAW	Material Classification		during welding		After welding	
Sr.No.	JOINT no.	Welder no. 1	Welder no. 2	Material 1	Material 2	Minimum Preheating Temp.C°	Max. Interpass Temp.C°	Appearance	Remarks
1	RW R1B1	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
2	RW R1B2	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
3	RW R1B3	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
4	RW R1B4	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
5	RW R1B5	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
6	RW R1B6	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
7	RW R1B7	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
8	RW R1B8	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
9	RW R1B9	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
10	RW R1B10	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
11	RW R1B11	SM20	SM23	SA283Grc	SA283Grc	10	250	ACC	
12	RW R1B12	SM170	SM19	SA283Grc	SA283Grc	10	250	ACC	
13	RW R2B1	SM25	SM05	SA283Grc	SA283Grc	10	250	ACC	
14	RW RL1	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
15	RW RL2	SM16	SM05	SA283Grc	SA283Grc	10	250	ACC	
16	RW R1R	AR26	AR91	SA283Grc	SA283Grc	10	250	ACC	
17	RW RU01	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	
18	RW RU02	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	
19	RW RU04	SM10	SM10	SA283Grc	SA283Grc	10	250	ACC	
20	RW RU06	SM132	SM210	SA283Grc	SA283Grc	10	250	ACC	
21	RW RU07	SM132	SM210	SA283Grc	SA283Grc	10	250	ACC	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	[signature]		[signature]
Date :			

10. MATERIAL TRACEABILITY REPORTS

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	285
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	26/05/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RWV157	A 537 CL1	1910085	14163	A 537 CL1	1910088	14163	
2	RW V158	A 537 CL1	291002622	14163	A 537 CL1	1910085	14163	
3	RWV160	A 537 CL1	1910085	14163	A 537 CL1	1910085	14163	
4	RW V186	A283GRC	57040	2991	A283GRC	57040	2991	
5	RWV212	SA283Grc	28866	1208524	SA283Grc	28866	1208524	
6	RWV213	SA283Grc	28866	1208524	SA283Grc	28866	1208524	
7	RWV214	SA283Grc	28866	1208524	SA283Grc	28866	1208524	
8	RWV215	SA283Grc	28866	1208524	SA283Grc	28866	1208524	
9	RWV238	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	
10	RWV239	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	
11	RWV240	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	
12	RWV241	SA283Grc	71621103	20200306	SA283Grc	71621103	20200306	
13	**RWV103**	A537CL2	414445	14163	A 537 CL2	414474	14163	
14	**RWV131**	A537CL2	3581	1214389	A 537 CL2	3577	1214389	
15	**RWV134**	A537CL2	4157	1209195	A 537 CL2	29533	1209195	
16	**V157A**	A 537 CL1	1910085	14163	A 537 CL1	1910088	14163	
17	**V160A**	A 537 CL1	1910085	14163	A 537 CL1	1910085	14163	
18	**RWV159**	A 537 CL1	397993	14163	A 537 CL1	1910085	14163	
19	**RWV185**	A 537 CL1	57040	2991	A 537 CL1	57040	2991	

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Name :	**Maher Kassem**		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET بتروجت Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	286
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	27/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U23	SA283Grc	512462	52847	SA283Grc	136679	53533	
2	RW U24	SA283Grc	138333	53839	SA283Grc	137950	53703	
3	RW U25	SA283Grc	512727	53166	SA283Grc	139084	53703	
4	RW U27	SA283Grc	512500	52847	SA283Grc	138328	53836	
5	RW U28	SA283Grc	512469	52913	SA283Grc	138325	53836	
6	RW U29	SA283Grc	512469	52913	SA283Grc	139084	53703	
7	RW U30	SA283Grc	135130	53333	SA283Grc	137951	53703	
8	RW U32	SA283Grc	512462	52847	SA283Grc	138331	53839	
9	RW U33	SA283Grc	512469	52847	SA283Grc	138333	53839	
10	RW U34	SA283Grc	512466	52903	SA283Grc	512462	52847	
11	RW U35	SA283Grc	512727	53166	SA283Grc	138331	53839	
12	RW U37	SA283Grc	512469	52847	SA283Grc	136683	53533	
13	**RW U38**	SA283Grc	135931	53363	SA283Grc	139084	53703	
14	**RW U39**	SA283Grc	138331	53839	SA283Grc	138328	53836	
15	**RW U40**	SA283Grc	138333	53839	SA283Grc	138325	53836	
16	**RW U41**	SA283Grc	512469	52847	SA283Grc	139084	53703	
17	**RW U44**	SA283Grc	512462	52847	SA283Grc	512500	52847	
18	**RW U45**	SA283Grc	512500	52847	SA283Grc	136679	53533	
19	**RW U46**	SA283Grc	138333	53839	SA283Grc	512500	52847	
20	**RW U47**	SA283Grc	512462	52847	SA283Grc	512469	52847	
21	**RW U48**	SA283Grc	138331	53839	SA283Grc	136679	53533	
22	**RW U50**	SA283Grc	136679	53533	SA283Grc	139086	53703	
23	**RW U51**	SA283Grc	136683	53533	SA283Grc	139086	53703	
24	**RW U52**	SA283Grc	139084	53703	SA283Grc	135130	53333	

	PETROJET	**ENPPI**	**PMC**
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET Enppi

Client : EGPC	
Consortium : PETROJET/ ENPPI	
TANK NO.: 031-T-01	Report no: 287
DRW no : 1251-100-116-02-XX-D01-017	DATE: 28/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U54	SA283Grc	139084	53703	SA283Grc	139086	53703	
2	RW U56	SA283Grc	138328	53836	SA283Grc	512469	52847	
3	RW U57	SA283Grc	138325	53836	SA283Grc	135931	53363	
4	RW U58	SA283Grc	139084	53703	SA283Grc	138331	53839	
5	RW U59	SA283Grc	136679	53533	SA283Grc	138333	53839	
6	RW U60	SA283Grc	137950	53703	SA283Grc	512469	52847	
7	RW U61	SA283Grc	139084	53703	SA283Grc	512500	52847	
8	RW U63	SA283Grc	138325	53836	SA283Grc	512500	52847	
9	RW U64	SA283Grc	139084	53703	SA283Grc	135931	53363	
10	RW U65	SA283Grc	137951	53703	SA283Grc	138331	53839	
11	RW U66	SA283Grc	512500	52847	SA283Grc	138333	53839	
12	RW U67	SA283Grc	138331	53839	SA283Grc	137930	53730	
13	RW U68	SA283Grc	138333	53839	SA283Grc	512462	52847	
14	RW U72	SA283Grc	512462	52847	SA283Grc	512469	52847	
15	RW U73	SA283Grc	138331	53839	SA283Grc	512462	52847	
16	RW U74	SA283Grc	136679	53533	SA283Grc	512500	52847	
17	RW U75	SA283Grc	136683	53533	SA283Grc	512469	52847	
18	RW U76	SA283Grc	139084	53703	SA283Grc	512550	52951	
19	RW U79	SA283Grc	138328	53836	SA283Grc	512550	52951	
20	RW U80	SA283Grc	138325	53836	SA283Grc	512727	53166	
21	RW U81	SA283Grc	139084	53703	SA283Grc	512462	52847	
22	RW U82	SA283Grc	137951	53703	SA283Grc	138333	53839	
23	RW U83	SA283Grc	512500	52847	SA283Grc	137950	53703	
24	RW U84	SA283Grc	136679	53533	SA283Grc	136678	53533	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET بتروجت Enppi

Client : EGPC		
Consortium : PETROJET/ ENPPI	Report no	288
TANK NO.: 031-T-01		
DRW no : 1251-100-116-02-XX-D01-017	DATE	29/05/2021
Applicable Code / Specification : API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U88	SA283Grc	512469	52847	SA283Grc	512500	52847	
2	RW U89	SA283Grc	136679	53533	SA283Grc	138331	53839	
3	RW U90	SA283Grc	139086	53703	SA283Grc	138333	53839	
4	RW U91	SA283Grc	139086	53703	SA283Grc	512462	52847	
5	RW U92	SA283Grc	135130	53333	SA283Grc	138331	53839	
6	RW U93	SA283Grc	136679	53533	SA283Grc	138333	53839	
7	RW U96	SA283Grc	139086	53703	SA283Grc	512462	52847	
8	RW U97	SA283Grc	512462	52847	SA283Grc	136679	53533	
9	RW U98	SA283Grc	138333	53839	SA283Grc	139086	53703	
10	RW U99	SA283Grc	137950	53703	SA283Grc	139086	53703	
11	RW U100	SA283Grc	53839	53839	SA283Grc	135130	53333	
12	RW U104	SA283Grc	512469	52913	SA283Grc	138333	53839	
13	**RW U105**	SA283Grc	138333	53839	SA283Grc	512466	52903	
14	**RW U106**	SA283Grc	512727	53166	SA283Grc	137933	53730	
15	**RW U107**	SA283Grc	512466	52903	SA283Grc	138333	53839	
16	**RW U108**	SA283Grc	135931	53363	SA283Grc	129226	52847	
17	**RW U113**	SA283Grc	137950	53703	SA283Grc	138333	53839	
18	**RW U114**	SA283Grc	512462	52847	SA283Grc	512469	52847	
19	**RW U115**	SA283Grc	512500	52847	SA283Grc	512500	52847	
20	**RW U116**	SA283Grc	512469	52847	SA283Grc	512462	52847	
21	**RW U117**	SA283Grc	512466	52903	SA283Grc	512500	52847	
22	**RW U118**	SA283Grc	135130	53333	SA283Grc	512469	52847	
23	**RW U120**	SA283Grc	512469	52847	SA283Grc	512466	52903	
24	**RW U121**	SA283Grc	512469	52847	SA283Grc	512727	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 289
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 30/05/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U123	SA283Grc	135130	53333	SA283Grc	135931	53363	
2	RW U124	SA283Grc	512469	52847	SA283Grc	138331	53839	
3	RW U125	SA283Grc	138331	53839	SA283Grc	512462	52847	
4	RW U126	SA283Grc	512498	52847	SA283Grc	512469	52847	
5	RW U127	SA283Grc	512469	52847	SA283Grc	512469	52847	
6	RW U129	SA283Grc	512462	52847	SA283Grc	136679	53533	
7	RW U130	SA283Grc	512469	52847	SA283Grc	137950	53703	
8	RW U131	SA283Grc	135931	53363	SA283Grc	512462	52847	
9	RW U132	SA283Grc	138331	53839	SA283Grc	512500	52847	
10	RW U133	SA283Grc	138333	53839	SA283Grc	512469	52847	
11	RW U134	SA283Grc	512469	52847	SA283Grc	138331	53839	
12	RW U135	SA283Grc	512500	52847	SA283Grc	512462	52847	
13	**RW U137**	SA283Grc	512462	52847	SA283Grc	135931	53363	
14	**RW U138**	SA283Grc	512500	52847	SA283Grc	138331	53839	
15	**RW U139**	SA283Grc	512469	52847	SA283Grc	138333	53839	
16	**RW U140**	SA283Grc	512469	52847	SA283Grc	137930	53730	
17	**RW U141**	SA283Grc	138331	53839	SA283Grc	512462	52847	
18	**RW U142**	SA283Grc	512550	52951	SA283Grc	512469	52847	
19	**RW U143**	SA283Grc	512727	53166	SA283Grc	512462	52847	
20	**RW U144**	SA283Grc	137933	53730	SA283Grc	512500	52847	
21	**RW U146**	SA283Grc	137950	53703	SA283Grc	512469	52847	
22	**RW U147**	SA283Grc	512501	52847	SA283Grc	512550	52951	
23	**RW U148**	SA283Grc	512500	52847	SA283Grc	512550	52951	
24	**RW U149**	SA283Grc	512500	52847	SA283Grc	512727	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	290
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	31/05/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U151	SA283Grc	512500	52847	SA283Grc	138333	53839	
2	RW U152	SA283Grc	512500	52847	SA283Grc	137950	53703	
3	RW U153	SA283Grc	135931	53363	SA283Grc	512501	52847	
4	RW U155	SA283Grc	138333	53839	SA283Grc	512500	52847	
5	RW U156	SA283Grc	137930	53730	SA283Grc	512500	52847	
6	RW U157	SA283Grc	512466	52903	SA283Grc	512469	52847	
7	RW U158	SA283Grc	512462	52847	SA283Grc	512500	52847	
8	RW U159	SA283Grc	512500	52847	SA283Grc	135931	53363	
9	RW U160	SA283Grc	512550	52951	SA283Grc	138331	53839	
10	RW U161	SA283Grc	512550	52951	SA283Grc	138333	53839	
11	RW U162	SA283Grc	512469	52847	SA283Grc	137930	53730	
12	RW U165	SA283Grc	512727	53166	SA283Grc	512500	52847	
13	**RW U166**	SA283Grc	512727	53166	SA283Grc	512550	52951	
14	**RW U167**	SA283Grc	512727	53166	SA283Grc	512550	52951	
15	**RW U168**	SA283Grc	512501	52847	SA283Grc	512469	52847	
16	**RW U169**	SA283Grc	512469	52913	SA283Grc	512462	52847	
17	**RW U170**	SA283Grc	512500	52847	SA283Grc	138333	53839	
18	**RW U171**	SA283Grc	512469	52913	SA283Grc	512727	53166	
19	**RW U174**	SA283Grc	138333	53839	SA283Grc	512500	52847	
20	**RW U175**	SA283Grc	137950	53703	SA283Grc	512469	52913	
21	**RW U176**	SA283Grc	512726	53166	SA283Grc	512469	52913	
22	**RW U177**	SA283Grc	512727	53166	SA283Grc	135130	53333	
23	**RW U184**	SA283Grc	512727	53166	SA283Grc	512466	52903	
24	**RW U185**	SA283Grc	512466	52903	SA283Grc	512462	52847	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		
Sign :	for [signature]		M.Youssef [signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC PETROJET Enppi

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 291
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 01/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U193	SA283Grc	512469	52847	SA283Grc	512466	52903	
2	RW U194	SA283Grc	512466	52903	SA283Grc	512727	53166	
3	RW U195	SA283Grc	512466	52903	SA283Grc	512469	52847	
4	RW U196	SA283Grc	135130	53333	SA283Grc	512469	52913	
5	RW U197	SA283Grc	135130	53333	SA283Grc	512466	52903	
6	RW U198	SA283Grc	512466	52903	SA283Grc	512469	52847	
7	RW U199	SA283Grc	135130	53333	SA283Grc	512469	52913	
8	RW U203	SA283Grc	512466	52903	SA283Grc	135130	53333	
9	RW U204	SA283Grc	512462	52847	SA283Grc	139084	53703	
10	RW U205	SA283Grc	512469	52913	SA283Grc	137951	53703	
11	RW U208	SA283Grc	512550	52951	SA283Grc	512501	52847	
12	RW U209	SA283Grc	139084	53703	SA283Grc	512500	52847	
13	**RW U212**	SA283Grc	137930	53730	SA283Grc	512498	52847	
14	**RW U213**	SA283Grc	512500	52847	SA283Grc	512501	52847	
15	**RW U214**	SA283Grc	512550	52951	SA283Grc	512500	52847	
16	**RW U216**	SA283Grc	139084	53703	SA283Grc	138331	53839	
17	**RW U217**	SA283Grc	139086	53703	SA283Grc	138333	53839	
18	**RW U218**	SA283Grc	137950	53703	SA283Grc	137930	53730	
19	**RW U220**	SA283Grc	138333	53839	SA283Grc	512550	52951	
20	**RW U223**	SA283Grc	512466	52903	SA283Grc	139086	53703	
21	**RW U224**	SA283Grc	512466	52903	SA283Grc	137950	53703	
22	**RW U225**	SA283Grc	137933	53730	SA283Grc	138331	53839	
23	**RW U226**	SA283Grc	136679	53533	SA283Grc	138333	53839	
24	**RW U227**	SA283Grc	137950	53703	SA283Grc	138332	53839	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	292
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	02/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U229	SA283Grc	138328	53836	SA283Grc	512466	52903	
2	RW U230	SA283Grc	138325	53836	SA283Grc	512466	52903	
3	RW U233	SA283Grc	139084	53703	SA283Grc	137950	53703	
4	RW U234	SA283Grc	137951	53703	SA283Grc	512469	52847	
5	RW U235	SA283Grc	512500	52847	SA283Grc	138328	53836	
6	RW U237	SA283Grc	138331	53839	SA283Grc	136679	53533	
7	RW U238	SA283Grc	138333	53839	SA283Grc	136683	53533	
8	RW U239	SA283Grc	512462	52847	SA283Grc	139084	53703	
9	RW U244	SA283Grc	138331	53839	SA283Grc	136679	53533	
10	RW U245	SA283Grc	136679	53533	SA283Grc	512462	52847	
11	RW U246	SA283Grc	136683	53533	SA283Grc	512469	52913	
12	RW U247	SA283Grc	139084	53703	SA283Grc	512498	52847	
13	**RW U248**	SA283Grc	138328	53836	SA283Grc	512466	52903	
14	**RW U249**	SA283Grc	138325	53836	SA283Grc	512466	52903	
15	**RW U251**	SA283Grc	139084	53703	SA283Grc	137950	53703	
16	**RW U252**	SA283Grc	137951	53703	SA283Grc	512469	52847	
17	**RW U254**	SA283Grc	136679	53533	SA283Grc	136683	53533	
18	**RW U255**	SA283Grc	512500	52847	SA283Grc	138328	53836	
19	**RW U256**	SA283Grc	512469	52847	SA283Grc	138325	53836	
20	**RW U257**	SA283Grc	136679	53533	SA283Grc	136679	53533	
21	**RW U258**	SA283Grc	139086	53703	SA283Grc	136683	53533	
22	**RW U259**	SA283Grc	139086	53703	SA283Grc	139084	53703	
23	**RW U260**	SA283Grc	135130	53333	SA283Grc	137951	53703	
24	**RW U262**	SA283Grc	136679	53533	SA283Grc	138328	53836	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET Enppi

Client : EGPC		
Consortium : PETROJET/ ENPPI	Report no	293
TANK NO.: 031-T-01		
DRW no : 1251-100-116-02-XX-D01-017	DATE	03/06/2021
Applicable Code / Specification : API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U265	SA283Grc	512466	52903	SA283Grc	135130	53333	
2	RW U266	SA283Grc	512469	52913	SA283Grc	135130	53333	
3	RW U267	SA283Grc	512466	52903	SA283Grc	135130	53333	
4	RW U269	SA283Grc	512727	53166	SA283Grc	512466	52903	
5	RW U270	SA283Grc	513145	53333	SA283Grc	512727	53166	
6	RW U272	SA283Grc	137936	53730	SA283Grc	512469	52913	
7	RW U273	SA283Grc	139084	53703	SA283Grc	135130	53333	
8	RW U275	SA283Grc	139084	53703	SA283Grc	512727	53166	
9	RW U276	SA283Grc	513145	53333	SA283Grc	513145	53333	
10	RW U277	SA283Grc	139084	53703	SA283Grc	512462	52847	
11	RW U279	SA283Grc	513145	53333	SA283Grc	136679	53533	
12	RW U280	SA283Grc	138331	53839	SA283Grc	137950	53703	
13	**RW U281**	SA283Grc	138333	53839	SA283Grc	136679	53533	
14	**RW U283**	SA283Grc	513145	53333	SA283Grc	139084	53703	
15	**RW U284**	SA283Grc	138331	53836	SA283Grc	138332	53839	
16	**RW U286**	SA283Grc	512500	52847	SA283Grc	138331	53839	
17	**RW U287**	SA283Grc	512500	52847	SA283Grc	138333	53839	
18	**RW U288**	SA283Grc	138331	53836	SA283Grc	138332	53839	
19	**RW U289**	SA283Grc	128242	52874	SA283Grc	513145	53333	
20	**RW U293**	SA283Grc	136679	53533	SA283Grc	512500	52847	
21	**RW U294**	SA283Grc	513336	53533	SA283Grc	138328	53836	
22	**RW U296**	SA283Grc	513336	53533	SA283Grc	138327	53836	
23	**RW U297**	SA283Grc	513336	53533	SA283Grc	138328	53836	
24	**RW U298**	SA283Grc	512469	52847	SA283Grc	136270	53533	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	294
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	04/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U301	SA283Grc	137938	53730	SA283Grc	137946	53703	
2	RW U304	SA283Grc	137946	53703	SA283Grc	139084	53703	
3	RW U305	SA283Grc	139084	53703	SA283Grc	136247	53363	
4	RW U307	SA283Grc	512466	52903	SA283Grc	135130	53333	
5	RW U308	SA283Grc	512727	53166	SA283Grc	135929	53363	
6	RW U309	SA283Grc	135130	53333	SA283Grc	135931	53363	
7	RW U311	SA283Grc	138327	53836	SA283Grc	512500	52847	
8	RW U312	SA283Grc	512501	52847	SA283Grc	512499	52847	
9	RW U314	SA283Grc	137933	53730	SA283Grc	512727	53166	
10	RW U315	SA283Grc	138327	53836	SA283Grc	512500	52847	
11	RW U317	SA283Grc	512500	52847	SA283Grc	135130	53333	
12	RW U318	SA283Grc	512726	53127	SA283Grc	136247	53363	
13	**RW U320**	SA283Grc	136679	53533	SA283Grc	138331	53836	
14	**RW U321**	SA283Grc	129228	52874	SA283Grc	137946	53703	
15	**RW U322**	SA283Grc	137946	53703	SA283Grc	512500	52847	
16	**RW U323**	SA283Grc	139084	53703	SA283Grc	512500	52847	
17	**RW U324**	SA283Grc	139086	53703	SA283Grc	512726	53127	
18	**RW U328**	SA283Grc	512500	52847	SA283Grc	137946	53703	
19	**RW U329**	SA283Grc	512500	52847	SA283Grc	139084	53703	
20	**RW U330**	SA283Grc	135130	53333	SA283Grc	139086	53703	
21	**RW U331**	SA283Grc	512501	52847	SA283Grc	137950	53703	
22	**RW U332**	SA283Grc	512727	53166	SA283Grc	138331	53839	
23	**RW U333**	SA283Grc	135130	53333	SA283Grc	512727	53166	
24	**RW U334**	SA283Grc	136679	53533	SA283Grc	512500	52847	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	295
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	05/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U338	SA283Grc	512500	52847	SA283Grc	512727	53166	
2	RW U339	SA283Grc	512499	52847	SA283Grc	138328	53836	
3	RW U340	SA283Grc	136679	53533	SA283Grc	138331	53836	
4	RW U341	SA283Grc	129228	52874	SA283Grc	137946	53703	
5	RW U342	SA283Grc	137946	53703	SA283Grc	512500	52847	
6	RW U343	SA283Grc	512469	52913	SA283Grc	512500	52847	
7	RW U344	SA283Grc	138327	53836	SA283Grc	512500	52847	
8	RW U345	SA283Grc	512501	52847	SA283Grc	512499	52847	
9	RW U346	SA283Grc	512500	52847	SA283Grc	129228	52847	
10	RW U349	SA283Grc	135130	53333	SA283Grc	512469	52913	
11	RW U350	SA283Grc	135130	53333	SA283Grc	512498	52847	
12	RW U351	SA283Grc	129248	52847	SA283Grc	512501	52847	
13	**RW U352**	SA283Grc	138331	53836	SA283Grc	512500	52847	
14	**RW U353**	SA283Grc	138327	53836	SA283Grc	512500	52847	
15	**RW U354**	SA283Grc	138328	53836	SA283Grc	512469	52847	
16	**RW U355**	SA283Grc	136270	53533	SA283Grc	135130	53333	
17	**RW U356**	SA283Grc	136679	53533	SA283Grc	135130	53333	
18	**RW U359**	SA283Grc	135931	53363	SA283Grc	138327	53836	
19	**RW U360**	SA283Grc	135933	53363	SA283Grc	138328	53836	
20	**RW U361**	SA283Grc	136247	53363	SA283Grc	136270	53533	
21	**RW U362**	SA283Grc	137930	53730	SA283Grc	136679	53533	
22	**RW U363**	SA283Grc	137933	53730	SA283Grc	136680	53533	
23	**RW U364**	SA283Grc	137931	53730	SA283Grc	512505	52951	
24	**RW U365**	SA283Grc	137938	53730	SA283Grc	512928	53290	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 296
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 06/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U367	SA283Grc	139084	53703	SA283Grc	128226	52847	
2	RW U370	SA283Grc	136247	53363	SA283Grc	135933	53363	
3	RW U371	SA283Grc	137930	53730	SA283Grc	136247	53363	
4	RW U372	SA283Grc	137933	53730	SA283Grc	137930	53730	
5	RW U373	SA283Grc	137931	53730	SA283Grc	137933	53730	
6	RW U374	SA283Grc	137938	53730	SA283Grc	137931	53730	
7	RW U375	SA283Grc	137946	53703	SA283Grc	137938	53730	
8	RW U376	SA283Grc	139084	53703	SA283Grc	137946	53703	
9	RW U377	SA283Grc	139086	53703	SA283Grc	139084	53703	
10	RW U380	SA283Grc	137946	53703	SA283Grc	136247	53363	
11	RW U381	SA283Grc	139080	53703	SA283Grc	137930	53730	
12	RW U382	SA283Grc	139084	53703	SA283Grc	137933	53730	
13	**RW U383**	SA283Grc	137950	53703	SA283Grc	137931	53730	
14	**RW U384**	SA283Grc	137933	53730	SA283Grc	138331	53836	
15	**RW U385**	SA283Grc	135931	53363	SA283Grc	137946	53703	
16	**RW U386**	SA283Grc	13533	53363	SA283Grc	139084	53703	
17	**RW U387**	SA283Grc	136247	53363	SA283Grc	139086	53703	
18	**RW U388**	SA283Grc	138331	53836	SA283Grc	137950	53703	
19	**RW U392**	SA283Grc	136679	53533	SA283Grc	139084	53703	
20	**RW U393**	SA283Grc	136680	53533	SA283Grc	137950	53703	
21	**RW U394**	SA283Grc	135929	53363	SA283Grc	135929	53363	
22	**RW U395**	SA283Grc	135931	53363	SA283Grc	135931	53363	
23	**RW U396**	SA283Grc	135933	53363	SA283Grc	13533	53363	
24	**RW U397**	SA283Grc	136247	53363	SA283Grc	136247	53363	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	297
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	07/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U402	SA283Grc	139084	53703	SA283Grc	136679	53533	
2	RW U403	SA283Grc	139080	53703	SA283Grc	136680	53533	
3	RW U404	SA283Grc	139084	53703	SA283Grc	135929	53363	
4	RW U405	SA283Grc	137950	53703	SA283Grc	135931	53363	
5	RW U406	SA283Grc	135929	53363	SA283Grc	135933	53363	
6	RW U407	SA283Grc	135931	53363	SA283Grc	136247	53363	
7	RW U408	SA283Grc	13533	53363	SA283Grc	137933	53730	
8	RW U412	SA283Grc	135933	53363	SA283Grc	139084	53703	
9	RW U413	SA283Grc	136247	53363	SA283Grc	139080	53703	
10	RW U414	SA283Grc	136246	53363	SA283Grc	139084	53703	
11	RW U415	SA283Grc	512726	53166	SA283Grc	137950	53703	
12	RW U416	SA283Grc	512727	53166	SA283Grc	135929	53363	
13	RW U417	SA283Grc	512726	53166	SA283Grc	135931	53363	
14	RW U421	SA283Grc	512466	52903	SA283Grc	135931	53363	
15	RW U422	SA283Grc	512466	52903	SA283Grc	135933	53363	
16	RW U423	SA283Grc	512727	53166	SA283Grc	136247	53363	
17	RW U424	SA283Grc	512727	53166	SA283Grc	136246	53363	
18	RW U425	SA283Grc	512469	52913	SA283Grc	512726	53166	
19	RW U426	SA283Grc	512466	52903	SA283Grc	512727	53166	
20	RW U427	SA283Grc	512469	52847	SA283Grc	512726	53166	
21	RW U431	SA283Grc	512727	53166	SA283Grc	512466	52903	
22	RW U432	SA283Grc	512469	52913	SA283Grc	512466	52903	
23	RW U433	SA283Grc	512469	52913	SA283Grc	512727	53166	
24	RW U434	SA283Grc	513145	53333	SA283Grc	512727	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for		
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	298
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	08/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U436	SA283Grc	137936	53730	SA283Grc	512466	52903	
2	RW U440	SA283Grc	138328	53836	SA283Grc	512727	53166	
3	RW U441	SA283Grc	136270	53533	SA283Grc	512727	53166	
4	RW U442	SA283Grc	136679	53533	SA283Grc	512469	52913	
5	RW U443	SA283Grc	136680	53533	SA283Grc	512469	52913	
6	RW U444	SA283Grc	135929	53363	SA283Grc	513145	53333	
7	RW U445	SA283Grc	135931	53363	SA283Grc	513145	53333	
8	RW U449	SA283Grc	136270	53533	SA283Grc	138327	53836	
9	RW U450	SA283Grc	136679	53533	SA283Grc	138328	53836	
10	RW U451	SA283Grc	136680	53533	SA283Grc	136270	53533	
11	RW U452	SA283Grc	135929	53363	SA283Grc	136679	53533	
12	RW U453	SA283Grc	135931	53363	SA283Grc	136680	53533	
13	**RW U454**	SA283Grc	135933	53363	SA283Grc	135929	53363	
14	**RW U458**	SA283Grc	137931	53730	SA283Grc	138328	53836	
15	**RW U459**	SA283Grc	137938	53730	SA283Grc	136270	53533	
16	**RW U460**	SA283Grc	137946	53703	SA283Grc	136679	53533	
17	**RW U461**	SA283Grc	139084	53703	SA283Grc	136680	53533	
18	**RW U462**	SA283Grc	139086	53703	SA283Grc	135929	53363	
19	**RW U463**	SA283Grc	137950	53703	SA283Grc	135931	53363	
20	**RW U466**	SA283Grc	139084	53703	SA283Grc	137930	53730	
21	**RW U467**	SA283Grc	137950	53703	SA283Grc	137933	53730	
22	**RW U468**	SA283Grc	135929	53363	SA283Grc	137931	53730	
23	**RW U469**	SA283Grc	135931	53363	SA283Grc	137938	53730	
24	**RW U470**	SA283Grc	13533	53363	SA283Grc	137946	53703	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 299
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 09/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U472	SA283Grc	135929	53363	SA283Grc	139086	53703	
2	RW U474	SA283Grc	135933	53363	SA283Grc	137946	53703	
3	RW U475	SA283Grc	136247	53363	SA283Grc	139080	53703	
4	RW U476	SA283Grc	136246	53363	SA283Grc	139084	53703	
5	RW U477	SA283Grc	138331	53836	SA283Grc	137950	53703	
6	RW U478	SA283Grc	138327	53836	SA283Grc	135929	53363	
7	RW U480	SA283Grc	136270	53533	SA283Grc	13533	53363	
8	RW U481	SA283Grc	136679	53533	SA283Grc	136247	53363	
9	RW U484	SA283Grc	135933	53363	SA283Grc	135933	53363	
10	RW U485	SA283Grc	136247	53363	SA283Grc	136247	53363	
11	RW U486	SA283Grc	512462	52847	SA283Grc	136246	53363	
12	RW U487	SA283Grc	512469	52847	SA283Grc	138331	53836	
13	**RW U488**	SA283Grc	512727	53166	SA283Grc	138327	53836	
14	**RW U492**	SA283Grc	513145	53333	SA283Grc	136680	53533	
15	**RW U493**	SA283Grc	513145	53333	SA283Grc	135931	53363	
16	**RW U494**	SA283Grc	137936	53730	SA283Grc	135933	53363	
17	**RW U495**	SA283Grc	137946	53703	SA283Grc	136247	53363	
18	**RW U496**	SA283Grc	138333	53839	SA283Grc	512462	52847	
19	**RW U501**	SA283Grc	136679	53533	SA283Grc	512469	52913	
20	**RW U502**	SA283Grc	136680	53533	SA283Grc	513145	53333	
21	**RW U503**	SA283Grc	135929	53363	SA283Grc	513145	53333	
22	**RW U504**	SA283Grc	135931	53363	SA283Grc	137936	53730	
23	**RW U505**	SA283Grc	135933	53363	SA283Grc	137946	53703	
24	**RW U508**	SA283Grc	138331	53836	SA283Grc	138327	53836	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client :	EGPC		
Consortium : PETROJET/ ENPPI		Report no	300
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	10/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U511	SA283Grc	136270	53533	SA283Grc	136679	53533	
2	RW U512	SA283Grc	136679	53533	SA283Grc	136680	53533	
3	RW U514	SA283Grc	135929	53363	SA283Grc	135931	53363	
4	RW U515	SA283Grc	135931	53363	SA283Grc	135933	53363	
5	RW U517	SA283Grc	136247	53363	SA283Grc	139086	53703	
6	RW U518	SA283Grc	137930	53730	SA283Grc	138331	53836	
7	RW U519	SA283Grc	137933	53730	SA283Grc	138327	53836	
8	RW U525	SA283Grc	137950	53703	SA283Grc	135931	53363	
9	RW U526	SA283Grc	137946	53703	SA283Grc	135933	53363	
10	RW U527	SA283Grc	139080	53703	SA283Grc	136247	53363	
11	RW U529	SA283Grc	137950	53703	SA283Grc	137933	53730	
12	RW U530	SA283Grc	135929	53363	SA283Grc	137931	53730	
13	**RW U532**	SA283Grc	13533	53363	SA283Grc	137946	53703	
14	**RW U533**	SA283Grc	136247	53363	SA283Grc	139084	53703	
15	**RW U534**	SA283Grc	138327	53836	SA283Grc	139086	53703	
16	**RW U535**	SA283Grc	138328	53836	SA283Grc	137950	53703	
17	**RW U540**	SA283Grc	135931	53363	SA283Grc	135929	53363	
18	**RW U541**	SA283Grc	135933	53363	SA283Grc	135931	53363	
19	**RW U543**	SA283Grc	137930	53730	SA283Grc	136247	53363	
20	**RW U544**	SA283Grc	137933	53730	SA283Grc	512727	53166	
21	**RW U545**	SA283Grc	137931	53730	SA283Grc	512727	53166	
22	**RW U547**	SA283Grc	137946	53703	SA283Grc	512727	53166	
23	**RW U548**	SA283Grc	139084	53703	SA283Grc	512727	53166	
24	**RW U549**	SA283Grc	139086	53703	SA283Grc	512601	53127	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT (AGROOD AREA) Material Traceability Report

PETROJET | Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	301
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	11/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW U554	SA283Grc	137950	53703	SA283Grc	512727	53166	
2	RW U555	SA283Grc	135929	53363	SA283Grc	512727	53166	
3	RW U556	SA283Grc	135931	53363	SA283Grc	512727	53166	
4	RW U560	SA283Grc	135931	53363	SA283Grc	512727	53166	
5	RW U561	SA283Grc	135933	53363	SA283Grc	512727	53166	
6	RW U563	SA283Grc	136246	53363	SA283Grc	512727	53166	
7	RW U564	SA283Grc	512466	52903	SA283Grc	512727	53166	
8	RW U566	SA283Grc	512462	52847	SA283Grc	512726	53166	
9	RW U567	SA283Grc	512469	52847	SA283Grc	512550	52951	
10	RW U568	SA283Grc	512727	53166	SA283Grc	512550	52951	
11	RW U571	SA283Grc	512469	52913	SA283Grc	512550	52951	
12	RW U572	SA283Grc	513145	53333	SA283Grc	512727	53166	
13	RW U573	SA283Grc	513145	53333	SA283Grc	512727	53166	
14	RW U576	SA283Grc	138333	53839	SA283Grc	512727	53166	
15	RW U577	SA283Grc	138327	137933	SA283Grc	512727	53166	
16	RW U578	SA283Grc	138328	137931	SA283Grc	512469	52847	
17	RW U580	SA283Grc	136679	137946	SA283Grc	512727	53166	
18	RW U581	SA283Grc	136680	139084	SA283Grc	512727	53166	
19	RW U582	SA283Grc	136246	53333	SA283Grc	512469	52847	
20	RW U583	SA283Grc	138331	53730	SA283Grc	512726	53166	
21	RW L32	SA283Grc	512726	53166	SA283Grc	512726	53166	
22	RW L33	SA283Grc	512550	52951	SA283Grc	512550	52951	
23	RW L35	SA283Grc	512727	53166	SA283Grc	136246	53333	
24	RW L40	SA283Grc	512727	53166	SA283Grc	512727	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		
Sign :	for [signature]		M.Youssef [signature]
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET Enppi

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 302
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 12/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L47	SA283Grc	513457	53703	SA283Grc	512548	52951	
2	RW L48	SA283Grc	513454	53703	SA283Grc	512466	52903	
3	RW L53	SA283Grc	512548	52951	SA283Grc	513457	53703	
4	RW L54	SA283Grc	512466	52903	SA283Grc	512466	52903	
5	RW L56	SA283Grc	513457	53703	SA283Grc	513457	53703	
6	RW L57	SA283Grc	512548	52951	SA283Grc	512548	52951	
7	RW L58	SA283Grc	513457	53703	SA283Grc	513457	53703	
8	RW L60	SA283Grc	513454	53703	SA283Grc	513454	53703	
9	RW L61	SA283Grc	513457	53703	SA283Grc	513457	53703	
10	RW L75	SA283Grc	512469	52847	SA283Grc	512469	52847	
11	RW L76	SA283Grc	512728	53166	SA283Grc	512728	53166	
12	RW L105	SA283Grc	512469	52847	SA283Grc	512469	52847	
13	**RW L106**	SA283Grc	512726	53127	SA283Grc	512726	53127	
14	**RW L107**	SA283Grc	512726	53127	SA283Grc	512726	53127	
15	**RW L108**	SA283Grc	512726	53127	SA283Grc	512726	53127	
16	**RW L113**	SA283Grc	512728	53166	SA283Grc	512728	53166	
17	**RW L114**	SA283Grc	513561	53703	SA283Grc	513561	53703	
18	**RW L115**	SA283Grc	512601	53127	SA283Grc	512601	53127	
19	**RW L116**	SA283Grc	512602	53127	SA283Grc	512602	53127	
20	**RW L155**	SA283Grc	512601	53127	SA283Grc	512601	53127	
21	**RW L156**	SA283Grc	512601	53127	SA283Grc	512601	53127	
22	**RW L157**	SA283Grc	512601	53127	SA283Grc	512601	53127	
23	**RW L164**	SA283Grc	512601	53127	SA283Grc	512601	53127	
24	**RW L165**	SA283Grc	512601	53127	SA283Grc	512601	53127	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	303
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	12/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L168	SA283Grc	512727	53166	SA283Grc	512727	53166	
2	RW L169	SA283Grc	512728	53166	SA283Grc	512728	53166	
3	RW L170	SA283Grc	512601	53127	SA283Grc	512601	53127	
4	RW L178	SA283Grc	512727	53166	SA283Grc	512727	53166	
5	RW L179	SA283Grc	512726	53166	SA283Grc	512726	53166	
6	RW L187	SA283Grc	512602	53127	SA283Grc	512602	53127	
7	RW L188	SA283Grc	512602	53127	SA283Grc	512602	53127	
8	RW L197	SA283Grc	512602	53127	SA283Grc	512602	53127	
9	RW L198	SA283Grc	512602	53127	SA283Grc	512602	53127	
10	RW L205	SA283Grc	512722	53114	SA283Grc	512722	53114	
11	RW L206	SA283Grc	512601	53127	SA283Grc	512601	53127	
12	RW L207	SA283Grc	512548	52951	SA283Grc	512548	52951	
13	**RW L214**	SA283Grc	512721	53114	SA283Grc	512721	53114	
14	**RW L215**	SA283Grc	512721	53114	SA283Grc	512721	53114	
15	**RW L216**	SA283Grc	512721	53114	SA283Grc	512721	53114	
16	**RW L217**	SA283Grc	512601	53127	SA283Grc	512601	53127	
17	**RW L223**	SA283Grc	512722	53127	SA283Grc	512722	53127	
18	**RW L224**	SA283Grc	512722	53127	SA283Grc	512722	53127	
19	**RW L225**	SA283Grc	512602	53127	SA283Grc	512602	53127	
20	**RW L233**	SA283Grc	512722	53127	SA283Grc	512722	53127	
21	**RW L234**	SA283Grc	512722	53127	SA283Grc	512722	53127	
22	**RW L235**	SA283Grc	512720	53114	SA283Grc	512720	53114	
23	**RW L257**	SA283Grc	512466	52903	SA283Grc	512466	52903	
24	**RW L258**	SA283Grc	513562	53703	SA283Grc	513562	53703	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

PETROJET Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	304
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	13/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L260	SA283Grc	512726	53127	SA283Grc	512726	53127	
2	RW L261	SA283Grc	512722	53127	SA283Grc	512722	53127	
3	RW L262	SA283Grc	512722	53127	SA283Grc	512722	53127	
4	RW L263	SA283Grc	512602	53127	SA283Grc	512602	53127	
5	RW L268	SA283Grc	512726	53127	SA283Grc	512726	53127	
6	RW L269	SA283Grc	512722	53127	SA283Grc	512722	53127	
7	RW L270	SA283Grc	512722	53127	SA283Grc	512722	53127	
8	RW L271	SA283Grc	512602	53127	SA283Grc	512602	53127	
9	RW L272	SA283Grc	512726	53127	SA283Grc	512726	53166	
10	RW L273	SA283Grc	512722	53127	SA283Grc	512726	53127	
11	RW L275	SA283Grc	512726	53166	SA283Grc	512726	53166	
12	RW L276	SA283Grc	512726	53127	SA283Grc	512726	53127	
13	**RW L277**	SA283Grc	513456	53703	SA283Grc	513456	53703	
14	**RW L278**	SA283Grc	512602	53127	SA283Grc	512602	53127	
15	**RW L280**	SA283Grc	512602	53127	SA283Grc	512602	53127	
16	**RW L281**	SA283Grc	512601	53127	SA283Grc	512601	53127	
17	**RW L282**	SA283Grc	512466	52903	SA283Grc	512466	52903	
18	**RW L283**	SA283Grc	512726	53166	SA283Grc	512602	53127	
19	**RW L284**	SA283Grc	512720	53114	SA283Grc	512601	53127	
20	**RW L286**	SA283Grc	512726	53166	SA283Grc	512726	53166	
21	**RW L287**	SA283Grc	512720	53114	SA283Grc	512720	53114	
22	**RW L288**	SA283Grc	512720	53114	SA283Grc	512720	53114	
23	**RW L289**	SA283Grc	512720	53114	SA283Grc	512720	53114	
24	**RW L290**	SA283Grc	512720	53114	SA283Grc	512720	53114	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		
Sign :	for		M.Youssef
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	305
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	13/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L292	SA283Grc	513457	53703	SA283Grc	513457	53703	
2	RW L293	SA283Grc	512726	53166	SA283Grc	512720	53114	
3	RW L294	SA283Grc	512720	53114	SA283Grc	512601	53127	
4	RW L297	SA283Grc	512726	53127	SA283Grc	512726	53127	
5	RW L298	SA283Grc	512726	53127	SA283Grc	512726	53127	
6	RW L299	SA283Grc	512601	53127	SA283Grc	512601	53127	
7	RW L300	SA283Grc	512601	53127	SA283Grc	512601	53127	
8	RW L301	SA283Grc	512601	53127	SA283Grc	512601	53127	
9	RW L302	SA283Grc	513457	53703	SA283Grc	513457	53703	
10	RW L303	SA283Grc	512727	53166	SA283Grc	512727	53166	
11	RW L304	SA283Grc	512726	53127	SA283Grc	512601	53127	
12	RW L305	SA283Grc	512726	53127	SA283Grc	512601	53127	
13	**RW L307**	SA283Grc	512726	53127	SA283Grc	512726	53127	
14	**RW L308**	SA283Grc	512726	53127	SA283Grc	512726	53127	
15	**RW L309**	SA283Grc	512726	53127	SA283Grc	512726	53127	
16	**RW L310**	SA283Grc	512726	53127	SA283Grc	512726	53127	
17	**RW L311**	SA283Grc	512601	53127	SA283Grc	512601	53127	
18	**RW L312**	SA283Grc	512550	52951	SA283Grc	512550	52951	
19	**RW L313**	SA283Grc	513457	53703	SA283Grc	513457	53703	
20	**RW L314**	SA283Grc	512726	53127	SA283Grc	513457	53703	
21	**RW L315**	SA283Grc	513457	53703	SA283Grc	512498	52847	
22	**RW L320**	SA283Grc	512726	53127	SA283Grc	512726	53127	
23	**RW L321**	SA283Grc	512601	53127	SA283Grc	512601	53127	
24	**RW L322**	SA283Grc	512550	52951	SA283Grc	512550	52951	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	306
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	14/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L324	SA283Grc	512498	52847	SA283Grc	512498	52847	
2	RW L328	SA283Grc	512726	53127	SA283Grc	512726	53127	
3	RW L329	SA283Grc	512726	53127	SA283Grc	512726	53127	
4	RW L331	SA283Grc	512601	53127	SA283Grc	512601	53127	
5	RW L332	SA283Grc	512550	52951	SA283Grc	512550	52951	
6	RW L338	SA283Grc	512726	53127	SA283Grc	512726	53127	
7	RW L339	SA283Grc	512601	53127	SA283Grc	512601	53127	
8	RW L340	SA283Grc	513457	53703	SA283Grc	513457	53703	
9	RW L351	SA283Grc	513456	53730	SA283Grc	513456	53730	
10	RW L352	SA283Grc	513561	53703	SA283Grc	513561	53703	
11	RW L353	SA283Grc	512602	53127	SA283Grc	512602	53127	
12	RW L361	SA283Grc	512728	53166	SA283Grc	512728	53166	
13	**RW L362**	SA283Grc	512728	53166	SA283Grc	512728	53166	
14	**RW L363**	SA283Grc	512728	53166	SA283Grc	512728	53166	
15	**RW L364**	SA283Grc	512728	53166	SA283Grc	512728	53166	
16	**RW L374**	SA283Grc	512726	53127	SA283Grc	512726	53127	
17	**RW L375**	SA283Grc	512601	53127	SA283Grc	512601	53127	
18	**RW L376**	SA283Grc	512601	53127	SA283Grc	512601	53127	
19	**RW L382**	SA283Grc	512726	53127	SA283Grc	512726	53127	
20	**RW L383**	SA283Grc	512726	53127	SA283Grc	512726	53127	
21	**RW L385**	SA283Grc	513457	53703	SA283Grc	513457	53703	
22	**RW L386**	SA283Grc	512727	53166	SA283Grc	512727	53166	
23	**RW L387**	SA283Grc	513561	53703	SA283Grc	513561	53703	
24	**RW L388**	SA283Grc	512726	53166	SA283Grc	512726	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI	Report no	307
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	14/06/2021
Applicable Code / Specification :	API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L392	SA283Grc	513457	53703	SA283Grc	513457	53703	
2	RW L393	SA283Grc	512728	53127	SA283Grc	512728	53127	
3	RW L395	SA283Grc	512727	53166	SA283Grc	512727	53166	
4	RW L396	SA283Grc	512727	53166	SA283Grc	512727	53166	
5	RW L397	SA283Grc	512728	53127	SA283Grc	512728	53127	
6	RW L398	SA283Grc	512728	53166	SA283Grc	512728	53166	
7	RW L401	SA283Grc	512601	53127	SA283Grc	512601	53127	
8	RW L402	SA283Grc	513457	53703	SA283Grc	513457	53703	
9	RW L404	SA283Grc	512726	53166	SA283Grc	512726	53166	
10	RW L405	SA283Grc	512726	53166	SA283Grc	512726	53166	
11	RW L406	SA283Grc	512726	53127	SA283Grc	512726	53127	
12	RW L407	SA283Grc	512722	53127	SA283Grc	512722	53127	
13	**RW L412**	SA283Grc	513457	53703	SA283Grc	512728	53166	
14	**RW L419**	SA283Grc	513456	53703	SA283Grc	513457	53703	
15	**RW L421**	SA283Grc	513457	53703	SA283Grc	513454	53703	
16	**RW L428**	SA283Grc	512601	53127	SA283Grc	513454	53703	
17	**RW L430**	SA283Grc	513454	53703	SA283Grc	512466	52903	
18	**RW L434**	SA283Grc	513561	53703	SA283Grc	513456	53703	
19	**RW L438**	SA283Grc	513456	53703	SA283Grc	513562	53703	
20	**RW L447**	SA283Grc	513562	53703	SA283Grc	513456	53703	
21	**RW L449**	SA283Grc	513456	53703	SA283Grc	512728	53166	
22	**RW L450**	SA283Grc	513562	53703	SA283Grc	513561	53703	
23	**RW L451**	SA283Grc	512728	53166	SA283Grc	513562	53703	
24	**RW L456**	SA283Grc	512465	52903	SA283Grc	512727	53166	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC	
Consortium : PETROJET/ ENPPI	Report no: 308
TANK NO.: 031-T-01	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 15/06/2021
Applicable Code / Specification : API 650,ADD 11	

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L459	SA283Grc	512726	53127	SA283Grc	512726	53127	
2	RW L461	SA283Grc	512726	53127	SA283Grc	512726	53127	
3	RW L462	SA283Grc	512728	53166	SA283Grc	512728	53166	
4	RW L463	SA283Grc	512726	53166	SA283Grc	512726	53166	
5	RW L469	SA283Grc	512727	53166	SA283Grc	512727	53166	
6	RW L470	SA283Grc	512727	53166	SA283Grc	512727	53166	
7	RW L471	SA283Grc	512466	52903	SA283Grc	512466	52903	
8	RW L478	SA283Grc	512726	53127	SA283Grc	512726	53127	
9	RW L479	SA283Grc	512726	53127	SA283Grc	512726	53127	
10	RW L507	SA283Grc	512726	53166	SA283Grc	512726	53166	
11	RW L509	SA283Grc	512726	53166	SA283Grc	512726	53166	
12	RW L510	SA283Grc	512727	53166	SA283Grc	512727	53166	
13	**RW L516**	SA283Grc	512550	52951	SA283Grc	512550	52951	
14	**RW L518**	SA283Grc	512726	53166	SA283Grc	512726	53166	
15	**RW L519**	SA283Grc	512726	53166	SA283Grc	512726	53166	
16	**RW L524**	SA283Grc	512466	52903	SA283Grc	512466	52903	
17	**RW L526**	SA283Grc	512466	52903	SA283Grc	512466	52903	
18	**RW L527**	SA283Grc	512466	52903	SA283Grc	512874	53166	
19	**RW L531**	SA283Grc	512727	53166	SA283Grc	513562	53703	
20	**RW L533**	SA283Grc	512727	53166	SA283Grc	512466	52903	
21	**RW L534**	SA283Grc	512727	53166	SA283Grc	512466	52903	
22	**RW L535**	SA283Grc	512727	53166	SA283Grc	512727	53166	
23	**RW L548**	SA283Grc	512550	52951	SA283Grc	513145	53333	
24	**RW L549**	SA283Grc	512550	52951	SA283Grc	513145	53333	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET بتروجت | Enppi

Client :	EGPC		
Consortium :	PETROJET/ ENPPI		
TANK NO.:	031-T-01	Report no	308
DRW no :	1251-100-116-02-XX-D01-017		
Applicable Code / Specification :	API 650,ADD 11	DATE	15/06/2021

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L459	SA283Grc	512726	53127	SA283Grc	512726	53127	
2	RW L461	SA283Grc	512726	53127	SA283Grc	512726	53127	
3	RW L462	SA283Grc	512728|	53166	SA283Grc	512728|	53166	
4	RW L463	SA283Grc	512726	53166	SA283Grc	512726	53166	
5	RW L469	SA283Grc	512727	53166	SA283Grc	512727	53166	
6	RW L470	SA283Grc	512727	53166	SA283Grc	512727	53166	
7	RW L471	SA283Grc	512466	52903	SA283Grc	512466	52903	
8	RW L478	SA283Grc	512726	53127	SA283Grc	512726	53127	
9	RW L479	SA283Grc	512726	53127	SA283Grc	512726	53127	
10	RW L507	SA283Grc	512726	53166	SA283Grc	512726	53166	
11	RW L509	SA283Grc	512726	53166	SA283Grc	512726	53166	
12	RW L510	SA283Grc	512727	53166	SA283Grc	512727	53166	
13	**RW L516**	SA283Grc	512550	52951	SA283Grc	512550	52951	
14	**RW L518**	SA283Grc	512726	53166	SA283Grc	512726	53166	
15	**RW L519**	SA283Grc	512726	53166	SA283Grc	512726	53166	
16	**RW L524**	SA283Grc	512466	52903	SA283Grc	512466	52903	
17	**RW L526**	SA283Grc	512466	52903	SA283Grc	512466	52903	
18	**RW L527**	SA283Grc	512466	52903	SA283Grc	512874	53166	
19	**RW L531**	SA283Grc	512727	53166	SA283Grc	513562	53703	
20	**RW L533**	SA283Grc	512727	53166	SA283Grc	512466	52903	
21	**RW L534**	SA283Grc	512727	53166	SA283Grc	512466	52903	
22	**RW L535**	SA283Grc	512727	53166	SA283Grc	512727	53166	
23	**RW L548**	SA283Grc	512550	52951	SA283Grc	513145	53333	
24	**RW L549**	SA283Grc	512550	52951	SA283Grc	513145	53333	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client :	EGPC		
Consortium : PETROJET/ ENPPI			
TANK NO.:	031-T-01	Report no	309
DRW no :	1251-100-116-02-XX-D01-017		
Applicable Code / Specification : API 650,ADD 11		DATE	15/06/2021

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	V185A	A 537 CL1	57040	2991	A 537 CL1	57040	2991	
2	RW U53	SA283Grc	136683	53533	SA283Grc	136679	53533	
3	RW U87	SA283Grc	512500	52847	SA283Grc	512462	52847	
4	RW U122	SA283Grc	137933	53730	SA283Grc	512466	52903	
5	RW U150	SA283Grc	138333	53839	SA283Grc	512462	52847	
6	RW U186	SA283Grc	512466	52903	SA283Grc	512469	52847	
7	RW U228	SA283Grc	139084	53703	SA283Grc	137950	53703	
8	RW U263	SA283Grc	139086	53703	SA283Grc	138325	53836	
9	RW U300	SA283Grc	137931	53730	SA283Grc	137938	53730	
10	RW U335	SA283Grc	137946	53703	SA283Grc	512500	52847	
11	RW U366	SA283Grc	137946	53703	SA283Grc	1235503	52847	
12	RW U398	SA283Grc	137933	53730	SA283Grc	138331	53836	
13	RW U435	SA283Grc	513145	53333	SA283Grc	512469	52913	
14	RW U471	SA283Grc	136247	53363	SA283Grc	139084	53703	
15	RW U510	SA283Grc	138328	53836	SA283Grc	136270	53533	
16	RW U553	SA283Grc	139084	53703	SA283Grc	512727	53166	
17	RW L41	SA283Grc	513457	53703	SA283Grc	513454	53703	
18	RW L166	SA283Grc	512466	52903	SA283Grc	512466	52903	
19	RW L259	SA283Grc	512727	53166	SA283Grc	512727	53166	
20	RW L291	SA283Grc	512601	53127	SA283Grc	512601	53127	
21	RW L323	SA283Grc	513457	53703	SA283Grc	513457	53703	
22	RW L391	SA283Grc	512601	53127	SA283Grc	512601	53127	
23	RW L458	SA283Grc	512726	53127	SA283Grc	512726	53127	
24	RW L550	SA283Grc	512469	52847	SA283Grc	513145	53333	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC			
Consortium : PETROJET/ ENPPI		Report no	310
TANK NO.:	031-T-01		
DRW no :	1251-100-116-02-XX-D01-017	DATE	16/06/2021
Applicable Code / Specification : API 650,ADD 11			

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RW L554	SA283Grc	512727	53166	SA283Grc	512550	52951	
2	RW L555	SA283Grc	512727	53166	SA283Grc	512469	52847	
3	RW L561	SA283Grc	513145	53333	SA283Grc	512469	52913	
4	RW L562	SA283Grc	513145	53333	SA283Grc	512469	52913	
5	RW L570	SA283Grc	512727	53166	SA283Grc	512462	52847	
6	RW L572	SA283Grc	512466	52903	SA283Grc	512501	52847	
7	RW L573	SA283Grc	512466	52903	SA283Grc	512727	53166	
8	RW L575	SA283Grc	512727	53166	SA283Grc	512727	53166	
9	RW L577	SA283Grc	512469	52913	SA283Grc	512466	52903	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Material Traceability Report

EGPC | PETROJET | Enppi

Client : EGPC		
Consortium : PETROJET/ ENPPI	Report no	312
TANK NO.: 031-T-01		
DRW no : 1251-100-116-02-XX-D01-017	DATE	16/06/2021
Applicable Code / Specification : API 650,ADD 11		

Sr.No.	JOINT no.	Material 1			Material 2			Remark
		Material Classification	Heat No.	Material Certificate No.	Material Classification	Heat No.	Material Certificate No.	
1	RWL382	SA283Grc	512726	53127	SA283Grc	512726	53127	
2	RWL393	SA283Grc	512727	53166	SA283Grc	512727	53166	
3	RWL402	SA283Grc	513457	53703	SA283Grc	513457	53703	
4	RWL412	SA283Grc	513457	53703	SA283Grc	513561	53703	
5	RWV242	SA283Grc	71783401	20200306	SA283Grc	7162503	20200306	
6	RW U274	SA283Grc	513145	53333	SA283Grc	512466	52903	

	PETROJET	ENPPI	PMC
Name :	Maher Kassem		M.Youssef
Sign :	for [signature]		[signature]
Date :			

11. RADIOGRAPHIC TEST REPORTS

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 84
DATE 23/06/2021

Radiation Source : IR 192	Activity : 15 (Ci)		Exposure Time : Varity (Min.)
	Density : 2 - 4		

Film Class : IX 50 — **Manufacture :** FUJI
IQI Type : WIRE TYPE — **Sensitivity :** 2%

Eposure Technique :	SWSI √	DWSI		Panoramic	Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no. 1	Welder no. 2	Defect-location	Evaluation	Remarks
1	C07 RW T310	1	PLATE	12.4	SM18	SM15		ACC	0-10
2	C07 RW T310	2	PLATE	12.4	SM18	SM15		ACC	0-20

	PETROJET	ENPPI	PMC
Name	M-abd allah		M.Youssef
Sign :	[signature]		[signature]
Date :			

Abbrivations :

EP : excess Penetration — L.O.P : cf Penetration — L.O.F : Lack Of Fusion — F.D : fILM Defect
S.C : Suspected Crack — R.C : Root Concavity — U.C : Under Cut — R/S : Re Shoot
S : Slag P : Porosity — REP : Repair — ACC: Accept — C/O : Cut Out

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

PETROJET Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 83
DATE 22/06/2021

Radiation Source : IR 192	Activity : 15 (Ci)		Exposure Time : Varity (Min.)
	Density : 2 - 4		

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique :	SWSI √	DWSI		Panoramic	Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no. 1	Welder no. 2	Defect-location	Evaluation	Remarks
1	C06 RW T256	1	PLATE	20.9	SM15	SM18		ACC	0-10
2	C06 RW T256	2	PLATE	20.9	SM15	SM18		ACC	0-20
	C06 RW T258	1	PLATE	20.9	SM18	SM15		ACC	0-10
4	C06 RW T258	2	PLATE	20.9	SM18	SM15		ACC	0-20
5	C06 RW T262	1	PLATE	20.9	SM18	SM15		ACC	0-10
6	C06 RW T262	2	PLATE	20.9	SM18	SM15		ACC	0-20
7	C09 RW T424 RS	1	PLATE	10	SM33	SM18		ACC	0-10
8	C09 RW T424 RS	2	PLATE	10	SM33	SM18		ACC	0-20

	PETROJET	ENPPI	PMC
Name	M-abd allah		
Sign :			
Date :			

Abbrivations :

EP : excess Penetration
S.C : Suspected Crack
S : Slag P : Porosity
L.O.P : cf Penetration
R.C : Root Concavity
REP : Repair
L.O.F : Lack Of Fusion
U.C : Under Cut
ACC: Accept
F.D : fILM Defect
R/S : Re Shoot
C/O : Cut Out

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 82
DATE 21/06/2021

Radiation Source : IR 192 | Activity : 15 (Ci) | Exposure Time : Varity (Min.) | Density : 2 - 4

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique : SWSI √ | DWSI | Panoramic | Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no. 1	Welder no. 2	Defect-location	Evaluation	Remarks
1	C07 RWT314	1	PLATE	12.4	SM103	SM33		ACC	0-10
2	C07 RWT314	2	PLATE	12.4	SM103	SM33		ACC	0-20
	C09 RW T418	1	PLATE	10	SM103	SM33		ACC	0-10
	C09 RW T418	2	PLATE	10	SM103	SM33		ACC	0-20
5	C09 RW T419	1	PLATE	10	SM103	SM33		ACC	0-10
6	C09 RW T419	2	PLATE	10	SM103	SM33		ACC	0-20
7	C09 RW T420	1	PLATE	10	SM33	SM18		ACC	0-10
8	C09 RW T420	2	PLATE	10	SM33	SM18		ACC	0-20
9	C09 RW T421	1	PLATE	10	SM33	SM18		ACC	0-10
10	C09 RW T421	2	PLATE	10	SM33	SM18		ACC	0-20
11	C09 RW T422	1	PLATE	10	SM33	SM18		ACC	0-10
12	C09 RW T422	2	PLATE	10	SM33	SM18		ACC	0-20
13	C09 RW T423	1	PLATE	10	SM33	SM18		ACC	0-10
14	C09 RW T423	2	PLATE	10	SM33	SM18		ACC	0-20
15	C09 RW T424	1	PLATE	10	SM33	SM18		RS	0-10
16	C09 RW T424	2	PLATE	10	SM33	SM18		RS	0-20
17	C09 RW T425	1	PLATE	10	SM33	SM18		ACC	0-10
18	C09 RW T425	2	PLATE	10	SM33	SM18		ACC	0-20
19	C09 RW T426	1	PLATE	10	SM33	SM18		ACC	0-10
20	C09 RW T426	2	PLATE	10	SM33	SM18		ACC	0-20

	PETROJET	ENPPI	PMC
Name	M. abd allah		M.Youssef
Sign :	[signature]		[signature]
Date :			

Abbrivations :

EP : excess Penetration | L.O.P : cf Penetration | L.O.F : Lack Of Fusion | F.D : fILM Defect
S.C : Suspected Crack | R.C : Root Concavity | U.C : Under Cut | R/S : Re Shoot
S : Slag P : Porosity | REP : Repair | ACC: Accept | C/O : Cut Out

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 81
DATE 20-06-21

Radiation Source : IR 192	Activity : 15 (Ci)		Exposure Time : Varity (Min.)
	Density : 2 - 4		

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique :	SWSI √	DWSI		Panoramic	Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no.		Defect-location	Evaluation	Remarks
					1	2			
1	C06 T262A R	2	PLATE	20.9	SM18	SM33		ACC	0-20
2	C07 T310A	1	PLATE	12.4	SM128	SM218		ACC	0-10
3	C07 T310A	2	PLATE	12.4	SM128	SM218		ACC	0-20
4	C08 RW T368	1	PLATE	11.1	SM15	SM103		ACC	0-10
5	C08 RW T368	2	PLATE	11.1	SM15	SM103		ACC	0-20
6	C08 RW T369	1	PLATE	11.1	SM15	SM103		ACC	0-10
7	C08 RW T369	2	PLATE	11.1	SM15	SM103		ACC	0-20

	PETROJET	ENPPI	PMC
Name	M-abd allah		
Sign :	[signature]		[signature]
Date :			

Abbrivations :

EP : excess Penetration
S.C : Suspected Crack
S : Slag P : Porosity
L.O.P : cf Penetration
R.C : Root Concavity
REP : Repair
L.O.F : Lack Of Fusion
U.C : Under Cut
ACC: Accept
F.D : fILM Defect
R/S : Re Shoot
C/O : Cut Out

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 79
DATE 02/06/2021

Radiation Source : IR 192
Activity : 15 (Ci)
Exposure Time : Varity (Min.)
Density : 2 - 4

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique : SWSI √ | DWSI | Panoramic | Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no. 1	Welder no. 2	Defect-location	Evaluation	Remarks
1	RW T309	1	PLATE	12.4	SM128	SM103		ACC	0-10
2	RW T309	2	PLATE	12.4	SM128	SM103		ACC	0-20
[illegible]	C07 T310B	1	PLATE	12.4	AR33	SM218		ACC	0-10
[illegible]	C07 T310B	2	PLATE	12.4	AR33	SM218		ACC	0-20
5	RWT311	1	PLATE	12.4	AR26	SM54		ACC	0-10
6	RWT311	2	PLATE	12.4	AR26	SM54		ACC	0-20
7	RW T312	1	PLATE	12.4	AR26	SM54		ACC	0-10
8	RW T312	2	PLATE	12.4	AR26	SM54		ACC	0-20
9	RW T313	1	PLATE	12.4	AR26	SM54		ACC	0-10
10	RW T313	2	PLATE	12.4	AR26	SM54		ACC	0-20
11	RW T316	1	PLATE	12.4	SM33	SM128		ACC	0-10
12	RW T316	2	PLATE	12.4	SM33	SM128		ACC	0-20
13	RW T317	1	PLATE	12.4	SM103	SM128		ACC	0-10
14	RW T317	2	PLATE	12.4	SM103	SM128		ACC	0-20
15	RWT257 R	1	PLATE	20.9	SM33	SM33		ACC	0-10
16	RWT257	2	PLATE	20.9	SM33	SM33		ACC	0-20

	PETROJET	ENPPI	PMC
Name	[signature]	Abd-Allah Fathy	
Sign :	[signature]		[signature]
Date :			

Abbrivations :

EP : excess Penetration | L.O.P : cf Penetration | L.O.F : Lack Of Fusion | F.D : fILM Defect
S.C : Suspected Crack | R.C : Root Concavity | U.C : Under Cut | R/S : Re Shoot
S : Slag P : Porosity | REP : Repair | ACC: Accept | C/O : Cut Out

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 80
DATE 10/06/2021

Radiation Source : IR 192	Activity : 15 (Ci)		Exposure Time : Varity (Min.)
	Density : 2 - 4		

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique :	SWSI √	DWSI		Panoramic	Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no.		Defect-location	Evaluation	Remarks
					1	2			
1	C04 RW T148	1	PLATE	26.4	SM103	SM33		ACC	0-10
2	C04 RW T148	2	PLATE	26.4	SM103	SM33		ACC	0-20
3	C05 RW T208	1	PLATE	21.3	SM18	SM15		ACC	0-10
4	C05 RW T208	2	PLATE	21.3	SM18	SM15		ACC	0-20
5	C06 T262A	1	PLATE	20.9	P82	SM15		ACC	0-10
6	C06 T262A	2	PLATE	20.9	P82	SM15	REP AT (10)	REP	0-20
7	C06 RWT263	1	PLATE	20.9	P82	SM103		ACC	0-10
8	C06 RWT263	2	PLATE	20.9	P82	SM103		ACC	0-20
9	C07 RW T315	1	PLATE	12.4	SM33	SM103		ACC	0-10
10	C07 RW T315	2	PLATE	12.4	SM33	SM103		ACC	0-20
11	C08 RWT365	1	PLATE	11.1	SM33	AR30		ACC	0-10
12	C08 RWT365	2	PLATE	11.1	SM33	AR30		ACC	0-20
13	C08 RWT366	1	PLATE	11.1	SM33	AR30		ACC	0-10
14	C08 RWT366	2	PLATE	11.1	SM33	AR30		ACC	0-20
15	C08 RW T367	1	PLATE	11.1	SM15	SM18		ACC	0-10
16	C08 RW T367	2	PLATE	11.1	SM15	SM18		ACC	0-20
17	C08 RW T370	1	PLATE	11.1	SM15	SM18		ACC	0-10
18	C08 RW T370	2	PLATE	11.1	SM15	SM18		ACC	0-20
19	C08 RW T371	1	PLATE	11.1	SM103	SM33		ACC	0-10
20	C08 RW T371	2	PLATE	11.1	SM103	SM33		ACC	0-20

	PETROJET	ENPPI	PMC
Name	H8ssam Khalil	Abd-Allah Fathy	
Sign :	[signature]		[signature]
Date :			

Abbrivations :

EP : excess Penetration — L.O.P : cf Penetration — L.O.F : Lack Of Fusion — F.D : fILM Defect
S.C : Suspected Crack — R.C : Root Concavity — U.C : Under Cut — R/S : Re Shoot
S : Slag — P : Porosity — REP : Repair — ACC: Accept — C/O : Cut Out

CRUDE OIL TANK FARM PROJECT (AGROOD AREA)
RadiographicTest Report

EGPC | PETROJET | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.: 031-T-01
DRW no : 1251-100-116-02-XX-D01-017

Report no. 78
DATE 18/05/2021

Radiation Source : IR 192	Activity : 15 (Ci)		Exposure Time : Varity (Min.)
	Density : 2 - 4		

Film Class : IX 50
IQI Type : WIRE TYPE
Manufacture : FUJI
Sensitivity : 2%

Eposure Technique :	SWSI √	DWSI		Panoramic	Elliptical

Result of Radiographic Testing :

Serial No.	Weld no.	Film No.	Diam .	Thick	Welder no. 1	Welder no. 2	Defect-location	Evaluation	Remarks
1	RWT202	1	PLATE	21.3	SM218	SM218		ACC	
2	RWT203	1	PLATE	21.3	SM15	SM15		ACC	
	RWT209	1	PLATE	21.3	SM33	SM33		ACC	
4	T256A	1	PLATE	20.9	SM13	SM13		ACC	
5	RWT257	1	PLATE	20.9	SM33	SM33	REP AT (0)	REP	
6	RWT260	1	PLATE	20.9	SM218	SM218		ACC	

	PETROJET	ENPPI	PMC
Name	Maher Kassem	Abd-Allah Fathy	
Sign :	[signature]		[signature]
Date :	30/05/2021		

Abbrivations :

EP : excess Penetration | L.O.P : cf Penetration | L.O.F : Lack Of Fusion | F.D : fILM Defect
S.C : Suspected Crack | R.C : Root Concavity | U.C : Under Cut | R/S : Re Shoot
S : Slag P : Porosity | REP : Repair | ACC: Accept | C/O : Cut Out

11.A. PHASED ARRAY REPORTS

PHASED ARRAY REPORT

Date	04-05-2021	Report No	PAUT-190EP	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)					Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT			
Couplent	Water		Referance reflector size:	80%	Scan type	A & S & C& D Scan
Rejects %	0%		Cal Block ID			IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush		Examination Stage			Before PWHT
Instrument	Manufacure		M2M	Calibration	14-06-21	Serial: GEKKO-1160
	Model		GEKKO	Instrumnat Program		CAPTURE
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	64L5-G3		Frequancy	5 MHZ	Pitch	0.6 MM
	M2M		No. Of elements	64	Serial	2059P1022-2059P1031
Wedge	Type: G3-136-S55-IHC		BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) R90	Ref.Gain(PRL) R270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V103	2300	SM218	26.4	BW	537 CL2	20	20	2	1007	3	15	P90	VOL	150	PTJ 003P-26	ACC	

NOTE	.			
	PAUT Level II	PAUT Level III	ENPPI	PMC
Name		HOSSAM MOHIEY		
Sig.	H. Mohiey	[signature]		
Date				

Reviewed ASNT level III UT
Ahmed Algushi Mahmoud
[signature]
ASNT ID 229435

Date : 24-06-21 TIME : 11:19 AM

PHASED ARRAY REPORT

Date	24-06-2021	Report No PAUT-204P	PAGE NO.
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)		Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT	
Couplent	Water	Referance reflector size: 80% Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID	IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11		
Surface Condition	Cleaning by wire brush	Examination Stage	Before PWHT
Instrument	Manufacure	OLYMPUS / Calibration 14-11-19	Serial QC-0036547
	Model	X3 / Instrumnat Program	OMNISCAN
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB	
Search Unite	5L32-A32	Frequancy 5MHZ	Pitch 0.5 MM
	OLYMPUS	No. Of elements 64	Serial
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V157	2300	SM133	20.9	BW	537CL1	31	26.8	2	589	3	1	P90	VOL	100	PTJ 028P-21.3	ACC	
											2214	5	14	P270	VOL	100		ACC	
2	031-T-01	RW(T201-T202)AR	300 (1900-2200)	SM13	21.3	BW	537 CL2	31	26.3	2							PTJ 028P-21.3-K	ACC	
3	031-T-01	RW(T201-T202)C	2500	SM13	21.3	BW	537 CL2	31	26.3	2							PTJ 028P-21.3-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

EGPC Enppi

PHASED ARRAY REPORT

Date	23-06-2021	Report No PAUT-203P	PAGE NO.	1 of 1	Rev. 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)				Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT			
Couplent	Water	Referance reflector size:	80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID			IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11				
Surface Condition	Cleaning by wire brush	Examination Stage			Before PWHT
Instrument	Manufacure	OLYMPUS	Calibration	14-11-19	Serial: QC-0036547
	Model	X3	Instrumnat Program		OMNISCAN
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy	5MHZ	Pitch	0.5 MM
	OLYMPUS	No. Of elements	64	Serial	
Wedge	Type: SA32-N55S-IHC	BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) R90	Ref.Gain(PRL) R270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V158	2300	SM133	20.9	BW	537CL1	31	26.8	2	80	3	18	P90	VOL	100	PTJ 028P-21.3	ACC	
											820	5	19	P90	VOL	100		ACC	
											1000	4	17	P90	VOL	100		ACC	
											1350	2	15	P90	VOL	100		ACC	

NOTE	.			
	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

Date : 23-06-21 TIME : 7:54 AM

PHASED ARRAY REPORT

EGPC — Enppi

Date 22-06-2021	Report No PAUT-202P	PAGE NO. 1 of 1	Rev. : 00	
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)		Contractor: PETROJET	
Item : Weld	Procedure No.	PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size: 80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID	IIW (V1) and ASME Block	
Referance Code	ASME VIII & API 650 ADD 11			
Surface Condition	Cleaning by wire brush	Examination Stage	Before PWHT	
Instrument	Manufacure: OLYMPUS	Calibration 14-11-19	Serial	QC-0036547
	Model: X3	Instrumnat Program	OMNISCAN	
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy 5MHZ	Pitch	0.5 MM
	OLYMPUS	No. Of elements 64	Serial	
Wedge	Type: SA32-N55S-IHC	BEAM ANGLE : 35° TO 70°		

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location: Dis.from Ref.point mm	Length mm	Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW(T419-T420)	2500	SM18-SM33	10/11.1	BW	A283Gr.C	34.2	31.8	2	876	2	7	P90	VOL	100	PTJ 029P-11.1-K	ACC	
2	031-T-01	RW(T420-T421)A	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
3	031-T-01	RW(T420-T421)B	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
4	031-T-01	RW(T420-T421)C	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
5	031-T-01	RW(T420-T421)D	2000	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2	1225	3	7	P270	VOL	100	PTJ 029P-11.1-K	ACC	
6	031-T-01	RW(T421-T422)	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
7	031-T-01	RW(T422-T423)A	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
8	031-T-01	RW(T422-T423)B	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
9	031-T-01	RW(T422-T423)C	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
10	031-T-01	RW(T422-T423)D	1900	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2	453	2	7	P270	VOL	100	PTJ 029P-11.1-K	ACC	
11	031-T-01	RW(T423-T424)	2500	SM15-SM103	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
12	031-T-01	RW(T424-T425)A	2500	SM103-SM15	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
13	031-T-01	RW(T424-T425)B	2500	SM103-SM15	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
14	031-T-01	RW(T424-T425)C	2500	SM103-SM15	10/11.1	BW	A283Gr.C	34.2	31.8	2	564	2	7	P270	VOL	100	PTJ 029P-11.1-K	ACC	
15	031-T-01	RW(T424-T425)D	2000	SM103-SM15	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
16	031-T-01	RW(T425-T426)	2500	SM18-SM15	10/11.1	BW	A283Gr.C	34.2	31.8	2	1523	2	9	P270	VOL	160	PTJ 029P-11.1-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

Date : 23-06-21 TIME : 7:54 AM

EGPC

PHASED ARRAY REPORT

Enppi

Date	22-06-2021	Report No PAUT-201P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)				Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size:	80%	Scan type	A & S & C& D Scan
Rejects %	0%		Cal Block ID		IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11				
Surface Condition	Cleaning by wire brush		Examination Stage		Before PWHT
Instrument	Manufacure	OLYMPUS	Calibration	14-11-19	Serial QC-0036547
	Model	X3	Instrumnat Program		OMNISCAN
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy	5MHZ	Pitch	0.5 MM
	OLYMPUS	No. Of elements	64	Serial	
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°		

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW(T258-T259)A	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
2	031-T-01	RW(T258-T259)B	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	680	2	1	P90	VOL	100	PTJ 028P-21.3-K	ACC	
3	031-T-01	RW(T258-T259)C	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	680	5	10	P90	VOL	100	PTJ 028P-21.3-K	ACC	
4	031-T-01	RW(T259-T260)A	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
5	031-T-01	RW(T259-T260)B	1700	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	ROUGH CAP
6	031-T-01	RW(T260-T261)A	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
7	031-T-01	RW(T260-T261)B	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	2330	5	1	P270	VOL	100	PTJ 028P-21.3-K	ACC	
8	031-T-01	RW(T260-T261)C	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
9	031-T-01	RW(T364-T365)A	2500	SM18-SM33	11.1/12.4	BW	537CL1/A283Gr.C	34.2	31.8	2	2420	5	6	P270	VOL	100	PTJ 029P-11.1-K	ACC	
10	031-T-01	RW(T364-T365)B	1200	SM18-SM33	11.1/12.4	BW	537CL1/A283Gr.C	34.2	31.8	2	493 957	5 5	4 6	P270 P270	VOL VOL	100 100	PTJ 029P-11.1-K	ACC	
11	031-T-01	RW(T371-T372)A	700	SM103-SM33	11.1/12.4	BW	537CL1/A283Gr.C	34.2	31.8	2	680	3	5	P270	VOL	100	PTJ 029P-11.1-K	ACC	
12	031-T-01	RW(T371-T372)B	1500	SM18-SM33	11.1/12.4	BW	537CL1/A283Gr.C	34.2	31.8	2	90	5	5	P270	VOL	100	PTJ 029P-11.1-K	ACC	
13	031-T-01	RW(T418-T419)A	2500	SM18-SM33	10/11.1	BW	A283Gr.C	34.2	31.8	2	1207	2	3	P270	VOL	100	PTJ 029P-11.1-K	ACC	
14	031-T-01	RW(T418-T419)B	2500	SM18-SM33	10/11.1	BW	A283Gr.C	34.2	31.8	2	1701	4	8	P90	VOL	100	PTJ 029P-11.1-K	ACC	
15	031-T-01	RW(T418-T419)C	2500	SM18-SM33	10/11.1	BW	A283Gr.C	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
16	031-T-01	RW(T418-T419)D	2100	SM18-SM33	10/11.1	BW	A283Gr.C	34.2	31.8	2	239	2	8	P270	VOL	100	PTJ 029P-11.1-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

EGPC | Enppi

PHASED ARRAY REPORT

Date	21-06-2021	Report No PAUT-200P	PAGE NO.	1 of 1	Rev. : 00	
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)				Contractor: PETROJET	
Item : Weld	Procedure No.	PTJ-NDT-PAUT				
Couplent	Water	Referance reflector size:	80%	Scan type	A & S & C& D Scan	
Rejects %	0%	Cal Block ID			IIW (V1) and ASME Block	
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush	Examination Stage			Before PWHT	
Instrument	Manufacure	OLYMPUS	Calibration	23-10-19	Serial	QC-0036547
	Model	OMNISCAN X3	Instrumnat Program		OMNIPC	
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	64L5-G3	Frequancy	5 MHZ	Pitch	0.6 MM	
	M2M	No. Of elements	64	Serial	2059P1022-2059P1031	
Wedge	Type: G3-136-S55-IHC	BEAM ANGLE : 35° TO 70°				

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) R90	Ref.Gain(PRL) R270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	V160	2300	SM133	20.9	BW	537CL1	31	26.8	2							PTJ 028P-21.3	ACC	Rough CAP
2	031-T-01	V185	2300	P82	12.4	BW	537CL1	30	30	2							PTJ023P-12.4	ACC	Rough CAP
3	031-T-01	V185A	2300	SM18	12.4	BW	537CL1	30	30	2							PTJ023P-12.4	ACC	Rough CAP
4	031-T-01	V241	2300	SM15	10	BW	A283 Gr.C	20	20	2							PTJ006P-10mm-SV	ACC	

NOTE				
	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

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PHASED ARRAY REPORT

Enppi

Date	20-06-2021	Report No PAUT-199P	PAGE NO. 1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)			Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size: 80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID		IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11			
Surface Condition	Cleaning by wire brush	Examination Stage		Before PWHT
Instrument	Manufacure: OLYMPUS	Calibration: 14-11-19		Serial: QC-0036547
	Model: X3	Instrumnat Program		OMNISCAN
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy: 5MHZ	Pitch	0.5 MM
	OLYMPUS	No. Of elements: 64	Serial	
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°	

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location: Dis.from Ref.point mm	Flaw Location: Length mm	Flaw Location: Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW(T309-T310)R	250 (750-1000)	SM103-SM33	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
2	031-T-01	RW(T311-T312)AR	2500	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2	1124	2	7	P270	VOL	100	PTJ 029P-11.1-K	ACC	
3	031-T-01	RW(T311-T312)BR	2500	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2	2443	3	5	P90	VOL	100	PTJ 029P-11.1-K	ACC	
4	031-T-01	RW(T311-T312)CR	2200	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
5	031-T-01	RW(T313-T314)AR	150 (450-600)	SM18-SM33	20.9/12.4	BW	537CL1	34.2	31.8	2	92	3	6	P270	VOL	100	PTJ 029P-11.1-K	ACC	
6	031-T-01	RW(T313-T314)BR	260 (440-700)	SM18-SM33	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

PHASED ARRAY REPORT

EGPC | Enppi

Date	15-06-2021	Report No	PAUT-198P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)					Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT			
Couplent	Water	Referance reflector size: 80%	Scan type			A & S & C& D Scan
Rejects %	0%		Cal Block ID			IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush		Examination Stage			Before PWHT
Instrument	Manufacure		M2M	Calibration	23-10-19	Serial GEKKO-1160
	Model		GEKKO	Instrumnat Program		CAPTURE
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	5L32-A32		Frequancy	5MHZ	Pitch	0.5 MM
	OLYMPUS		No. Of elements	64	Serial	
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	R1 (T255-T256)	1000	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2							PTJ 028P-21.3-K	ACC	
2	031-T-01	R1 (T255-T256)A	2200	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2							PTJ 028P-21.3-K	ACC	
3	031-T-01	R1 (T256-T256A)	2500	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2	687	2	15	P270	VOL	100	PTJ 028P-21.3-K	ACC	
4	031-T-01	R1 (T256-T256A)A	700	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2							PTJ 028P-21.3-K	ACC	
5	031-T-01	R1 (T256A-257)	2000	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2	1260	3	1	P1270	VOL	100	PTJ 028P-21.3-K	ACC	
6	031-T-01	R1 (T257-T258)	1750	SM18-SM33	26.4/21.3	BW	537 CL2	31	26.8	2	1660	5	2	P90	VOL	100	PTJ 028P-21.3-K	ACC	
7	031-T-01	V240R	2300	P82	10	BW	283 Gr.C	R90 33.1 / CAP90 25.2	R270 30.5 / CAP270 27.3	2	1767	2	3	CAP270	VOL	190	PTJ 030P-9.5-SV	ACC	
											2020	3	8	R270	VOL	220		ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

PHASED ARRAY REPORT

EGPC — Enppi

Date	14-06-2021	Report No	PAUT-197P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)					Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT			
Couplent	Water	Referance reflector size:	80%	Scan type		A & S & C& D Scan
Rejects %	0%		Cal Block ID			HW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush		Examination Stage			Before PWHT
Instrument	Manufacure		M2M	Calibration	23-10-19	Serial: GEKKO-1160
	Model		GEKKO	Instrumnat Program		CAPTURE
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	5L32-A32		Frequancy	5MHZ	Pitch	0.5 MM
	OLYMPUS		No. Of elements	64	Serial	
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location: Dis.from Ref.point mm	Flaw Location: Length mm	Flaw Location: Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	R (T365-T366)	1300	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
2	031-T-01	R (T366-T367)	2500	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
3	031-T-01	R (T366-T367)A	2500	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
4	031-T-01	R (T366-T367)B	2500	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
5	031-T-01	R (T366-T367)C	2500	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
6	031-T-01	R (T366-T367)D	1550	SM33-AR30	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
7	031-T-01	R (T367-T367A)	1250	SM15-SM18	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
8	031-T-01	R (T367A-T368)	2500	SM33-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
9	031-T-01	R (T367A-T368)A	2500	SM33-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
10	031-T-01	R (T367A-T368)B	2500	SM33-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
11	031-T-01	R (T367A-T368)C	2500	SM33-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
12	031-T-01	R (T367A-T368)D	1550	SM33-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
13	031-T-01	R (T368-T369)	1300	SM33-SM18	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
14	031-T-01	R (T369-T370)	2500	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2	1127	3	12	P90	VOL	100	PTJ 029P-11.1-K	ACC	
15	031-T-01	R (T369-T370)A	2500	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2	1135	3	10	P270	VOL	100	PTJ 029P-11.1-K	ACC	
16	031-T-01	R (T369-T370)B	2150	SM15-SM103	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
17	031-T-01	R (T370-T371)	2500	SM103-SM33	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	
18	031-T-01	R (T370-T371)A	1600	SM103-SM33	20.9/12.4	BW	537CL1	34.2	31.8	2							PTJ 029P-11.1-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

Date: 15-06-21 TIME: 3:10 PM

PHASED ARRAY REPORT

EGPC — Enppi

Date	14-06-2021	Report No	PAUT-196P	PAGE NO.	1 of 1	Rev. : 00

Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)			Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size: 80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID		IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11			
Surface Condition	Cleaning by wire brush	Examination Stage		Before PWHT
Instrument	Manufacure	M2M	Calibration 23-10-19	Serial GEKKO-1160
	Model	GEKKO	Instrumnat Program	CAPTURE
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy	5MHZ	Pitch 0.5 MM
	OLYMPUS	No. Of elements	64	Serial
Wedge	Type: SA32-N55S-IHC	BEAM ANGLE : 35° TO 70°		

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01 RW	(T314-T315)	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	390	5	9	P270	VOL	100	PTJ 028P-21.3-K	ACC	
2	031-T-01 RW	(T315-T316)	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
3	031-T-01 RW	(T315-T316)A	1700	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	
4	031-T-01 RW	(T316-T317)	2500	SM18-SM33	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1503	5	2	P90	VOL	100	PTJ 028P-21.3-K	ACC	
5	031-T-01 RW	V214	2150	P82	10	BW	283 Gr.C	R90 33.1, CAP90 25.2	R270 30.5, CAP270 27.3	2	1364	2	4	CAP270	VOL	190	PTJ 030P-9.5-SV	ACC	

NOTE				
	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Samel: Meiwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

Date : 15-06-21 TIME : 3:10 PM

PHASED ARRAY REPORT

EGPC | Enppi

Date	14-06-2021	Report No	PAUT-195P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)					Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT			
Couplent	Water		Referance reflector size:	80%	Scan type	A & S & C& D Scan
Rejects %	0%		Cal Block ID			HW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush		Examination Stage			Before PWHT
Instrument	Manufacure		M2M	Calibration	23-10-19	Serial: GEKKO-1160
	Model		GEKKO	Instrumnat Program		CAPTURE
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	5L32-A32		Frequancy	5MHZ	Pitch	0.5 MM
	OLYMPUS		No. Of elements	64	Serial	
Wedge	Type: SA32-N55S-IHC		BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location: Dis.from Ref.point mm	Length mm	Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01 RW	(T308-T309)	2300	SM33-SM103	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1217	2	11	P270	VOL	100	PTJ 028P-21.3-K	ACC	
2	031-T-01 RW	(T309-T310)	2500	SM33-SM103	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	770	170	15	P90	VOL	100	PTJ 028P-21.3-K	REJ	
3	031-T-01 RW	(T310-T310A)	2500	SM115-SM103	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1920	5	21	P90	VOL	100	PTJ 028P-21.3-K	ACC	
4	031-T-01 RW	(T310A-T310B)	2000	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	547	3	6	P90	VOL	100	PTJ 028P-21.3-K	ACC	
5	031-T-01 RW	(T310A-T310B)A	1450	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1332	3	5	P90	VOL	100	PTJ 028P-21.3-K	ACC	
6	031-T-01 RW	(T310B-T311)	2500	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	2435	5	4	P90	VOL	100	PTJ 028P-21.3-K	ACC	
7	031-T-01 RW	(T311-T312)	2500	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	84	4	7	P90	VOL	100	PTJ 028P-21.3-K	ACC	
											2490	5	10	P270	VOL	100		ACC	
8	031-T-01 RW	(T311-T312)A	2500	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	760	150	11	P90	VOL	100	PTJ 028P-21.3-K	REJ	
											2170	100	11	P90	VOL	100		REJ	
											2380	120	11	P90	VOL	100		REJ	
9	031-T-01 RW	(T311-T312)B	2500	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	355	35	14	P90	VOL	100	PTJ 028P-21.3-K	REJ	
											700	790	14	P90	VOL	100		REJ	
10	031-T-01 RW	(T311-T312)C	2450	SM15-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	875	145	13	P90	VOL	100	PTJ 028P-21.3-K	REJ	
											1730	470	13	P90	VOL	100		REJ	
11	031-T-01 RW	(T312-T313)	2500	SM33-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1358	5	8	P90	VOL	100	PTJ 028P-21.3-K	ACC	
12	031-T-01 RW	(T313-T314)	2500	SM33-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	465	89	15	P90	VOL	100	PTJ 028P-21.3-K	REJ	
13	031-T-01 RW	(T313-T314)A	2500	SM33-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	445	235	12	P90	VOL	100	PTJ 028P-21.3-K	REJ	
14	031-T-01 RW	(T313-T314)B	2500	SM33-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1494	4	6	P90	VOL	100	PTJ 028P-21.3-K	ACC	
15	031-T-01 RW	(T313-T314)C	2450	SM33-P82	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	816	4	10	P90	VOL	100	PTJ 028P-21.3-K	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

Date : 12-06-21 TIME : 9:29 AM

PHASED ARRAY REPORT

EGPC | Enppi

Date	12-06-2021	Report No PAUT-194P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)				Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT			
Couplent	Water	Referance reflector size: 80%	Scan type		A & S & C& D Scan
Rejects %	0%	Cal Block ID			IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11				
Surface Condition	Cleaning by wire brush	Examination Stage			Before PWHT

Instrument						
Instrument	Manufacure	OLYMPUS	Calibration	23-10-19	Serial	QC-0036547
	Model	OMNISCAN X3	Instrumnat Program	OMNIPC		

Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	64L5-G3	Frequancy	5 MHZ	Pitch	0.6 MM
	M2M	No. Of elements	64	Serial	2059P1022-2059P1031
Wedge	Type: G3-136-S55-IHC	BEAM ANGLE : 35° TO 70°			

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) R90	Ref.Gain(PRL) R270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V186	2300	SM133	12.4	BW	A283 Gr.C	30	30	2							PTJ023P-12.4	ACC	
2	031-T-01	RW V238	2300	P82	10	BW	A283 Gr.C	20	20	2							PTJ006P-10mm-SV	ACC	
3	031-T-01	RW V239	2300	SM18	10	BW	A283 Gr.C	20	20	2							PTJ006P-10mm-SV	ACC	
4	031-T-01	RW V240	2300	SM15	10	BW	A283 Gr.C	20	20	2	0	2300	3.53	P270	VOL	113	PTJ006P-10mm-SV	REJ	
5	031-T-01	RW V242	2300	SM18	10	BW	A283 Gr.C	20	20	2							PTJ006P-10mm-SV	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.		[signature]		[signature]
Date				

Date : 08-06-21 TIME : 8:27 AM

PHASED ARRAY REPORT

Date	07-06-2021	Report No PAUT-193P	PAGE NO. 1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)			Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size: 80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID		IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11			
Surface Condition	Cleaning by wire brush	Examination Stage		Before PWHT
Instrument	Manufacure: M2M	Calibration: 23-10-19	Serial: GEKKO-1160	
	Model: GEKKO	Instrumnat Program	CAPTURE	
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy: 5MHZ	Pitch: 0.5 MM	
	OLYMPUS	No. Of elements: 64	Serial	
Wedge	Type: SA32-N55S-IHC	BEAM ANGLE : 35° TO 70°		

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Flaw Location Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01 RW	(T148-T147)	1550	SM218	30.1/26.4	BW	537 CL2	31	26.8	2	202	2	23	P90	VOL	100	PTJ 028P-21.3-K	ACC	
								31	26.8		680	7	1	P270	VOL	100		ACC	
2	031-T-01 RW	(T149-T148)	1950	SM18	30.1/26.4	BW	537 CL2	31	26.8	2	13	2	3	P270	VOL	100	PTJ 028P-21.3-K	ACC	
3	031-T-01 RW	(T201-T202)A	2250	AR30	26.4/21.3	BW	537 CL2	31	26.8	2	1920	65	21	P90	P	100	PTJ 028P-21.3-K	REJ	
								31	26.8		2060	20	21	P270	P	100		REJ	
4	031-T-01 RW	(T201-T202)B	2500	SM13	26.4/21.3	BW	537 CL2	31	26.8	2	1245	2	1	P90	VOL	100	PTJ 028P-21.3-K	ACC	
5	031-T-01 RW	(T203-T202)	2500	SM218	26.4/21.3	BW	537 CL2	31	26.8	2	2353	2	2	P90	VOL	100	PTJ 028P-21.3-K	ACC	
6	031-T-01 RW	(T204-T203)	1550	SM218	26.4/21.3	BW	537 CL2	31	26.8	2	566	3	2	P90	VOL	100	PTJ 028P-21.3-K	ACC	
7	031-T-01 RW	(T208-T209)A	2500	SM15	26.4/21.3	BW	537 CL2	31	26.8	2							PTJ 028P-21.3-K	ACC	
8	031-T-01 RW	(T208-T209)	1450	SM18	26.4/21.3	BW	537 CL2	31	26.8	2							PTJ 028P-21.3-K	ACC	
9	031-T-01 RW	(T262A-T262)B	2500	SM18	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	ROUGH CAP
10	031-T-01 RW	(T262A-T262)C	2300	SM15	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	1350	3	9	P90	VOL	100	PTJ 028P-21.3-K	ACC	
11	031-T-01 RW	(T262A-T262)	2500	SM218	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	ROUGH CAP
12	031-T-01 RW	(T263-T262A)	1000	SM218	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2	864	3	1	P90	VOL	100	PTJ 028P-21.3-K	ACC	
13	031-T-01 RW	(T264-T263)	2500	SM15	21.3/20.9	BW	537 CL2/ 537CL1	31	26.8	2							PTJ 028P-21.3-K	ACC	ROUGH CAP

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.				
Date				

Date : 29-05-21 TIME : 1:11 PM

PHASED ARRAY REPORT

EGPC — Enppi

Date	29-05-2021	Report No PAUT-192P	PAGE NO. 1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)			Contractor: PETROJET
Item : Weld	Procedure No.	PTJ-NDT-PAUT		
Couplent	Water	Referance reflector size: 80%	Scan type	A & S & C& D Scan
Rejects %	0%	Cal Block ID		IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11			
Surface Condition	Cleaning by wire brush	Examination Stage		Before PWHT
Instrument	Manufacure: OLYMPUS	Calibration: 23-10-19	Serial	QC-0036547
	Model: OMNISCAN X3	Instrumnat Program		OMNIPC
Weld overlay and offset : SeeScan Plan		Scan Gain referes to Primary Refence Level (PRL) plus 6 dB		
Search Unite	5L32-A32	Frequancy: 5MHZ	Pitch	0.5 MM
	OLYMPUS	No. Of elements: 32	Serial	
Wedge	Type: SA32-N55S-IHC	BEAM ANGLE : 35° TO 70°		

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) P90	Ref.Gain(PRL) P270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V212	2300	SM15	11.1	BW	A283 Gr.C	30	30	2	…..	…..	…….	……..	……	……	PTJ023P-12.4	ACC	
2	031-T-01	RW V213	2300	SM18	11.1	BW	A283 Gr.C	30	30	2	1650	1	1	P90	VOL	105	PTJ023P-12.4	ACC	
3	031-T-01	RW V215	2300	SM18	11.1	BW	A283 Gr.C	30	30	2	…..	…..	…….	……..	……	……	PTJ023P-12.4	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	[signature]	[signature]		[signature]
Date				

Date 04-05-21 TIME 10:01 AM

PHASED ARRAY REPORT

Date	04-05-2021	Report No	PAUT-190P	PAGE NO.	1 of 1	Rev. : 00
Client : EGPC	Project : CRUDE OIL TANK FARM PROJECT (1251-100)					Contractor: PETROJET
Item : Weld	Procedure No.		PTJ-NDT-PAUT			
Couplent	Water	Referance reflector size:	80%	Scan type		A & S & C& D Scan
Rejects %	0%	Cal Block ID				IIW (V1) and ASME Block
Referance Code	ASME VIII & API 650 ADD 11					
Surface Condition	Cleaning by wire brush	Examination Stage				Before PWHT
Instrument	Manufacure	M2M	Calibration	23-10-19	Serial	GEKKO-1160
	Model	GEKKO	Instrumnat Program	CAPTURE		
Weld overlay and offset : SeeScan Plan			Scan Gain referes to Primary Refence Level (PRL) plus 6 dB			
Search Unite	64L5-G3	Frequancy	5 MHZ	Pitch	0.6 MM	
	M2M	No. Of elements	64	Serial	2059P1022-2059P1031	
Wedge	Type: G3-136-S55-IHC	BEAM ANGLE : 35° TO 70°				

Evaluation & Record Of Indication (Unit:mm)

Sr.	TK. NO.	WELD	Length	Welder No.	THICK. (mm)	WELD TYPE	GRADE	Ref.Gain(PRL) R90	Ref.Gain(PRL) R270	Scan Side	Flaw Location Dis.from Ref.point mm	Flaw Location Length mm	Flaw Location Depth mm	Group No.	Flaw Type	Amp %	Scan Plan No.	Result	Remarks
1	031-T-01	RW V103	2300	SM218	26.4	BW	537 CL2	20	20	2	1007	3	15	P90	VOL	150	PTJ 003P-26	ACC	
2	031-T-01	RW V131	2300	SM218	21.3	BW	537 CL2	20	20	2	550	4	15	P90	VOL	145	PTJ 005P-21	ACC	
3	031-T-01	RW V134	2300	SM18	21.3	BW	537 CL2	20	20	2	810	4	5	P90	VOL	130	PTJ 005P-21	ACC	
4	031-T-01	V 157A	2300	AR30	20.9	BW	537 CL2	20	20	2	753	3	5	P90	VOL	140	PTJ 005P-21	ACC	
5	031-T-01	V160A	2300	SM13	20.9	BW	537 CL2	20	20	2	542	4	10	P90	VOL	130	PTJ 005P-21	ACC	
6	031-T-01	RW V159	2300	SM218	20.9	BW	537 CL2	20	20	2							PTJ 005P-21	ACC	

NOTE

	PAUT Level II	PTJ.QC MANAGER	ENPPI	PMC
Name	Eng/Sameh Metwally			M.Youssef
Sig.	Mohamed Soliman [signature]	[signature]		[signature]
Date				

12. DYE PENETRANT TEST REPORTS

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Out Liquid Penetrant Test

Owner :	EGPC	Date :	25/6/2021
Consortium :	PTJ/ENPPI	Report No. :	22
Tank no. :	031-T-01	% Examination :	100%
DRW no :	1251-100-116-02-XX-D01-017		
Applicable Code / Specification :	API 650, ADD.11		
Penetrant	MR 68 C	Dwell Time :	10 Min.
Developer	MR 70	Developing Time :	10 Min.
Cleaner	MR 85	Surface Temperature	25 °c

Sr.No.	Item Type	JOINT No.	Welder no.		Interpretation		Remarks
			1	2	Acc.	Rej.	
1	RIM BULKHEAD	RW R1B1	SM20	SM23	ACC		Test done on cap outside
2	RIM BULKHEAD	RW R1B2	SM20	SM23	ACC		Test done on cap outside
3	RIM BULKHEAD	RW R1B3	SM20	SM23	ACC		Test done on cap outside
4	RIM BULKHEAD	RW R1B4	SM20	SM23	ACC		Test done on cap outside
5	RIM BULKHEAD	RW R1B5	SM20	SM23	ACC		Test done on cap outside
6	RIM BULKHEAD	RW R1B6	SM20	SM23	ACC		Test done on cap outside
7	RIM BULKHEAD	RW R1B7	SM20	SM23	ACC		Test done on cap outside
8	RIM BULKHEAD	RW R1B8	SM20	SM23	ACC		Test done on cap outside
9	RIM BULKHEAD	RW R1B9	SM20	SM23	ACC		Test done on cap outside
10	RIM BULKHEAD	RW R1B10	SM20	SM23	ACC		Test done on cap outside
11	RIM BULKHEAD	RW R1B11	SM20	SM23	ACC		Test done on cap outside
12	RIM BULKHEAD	RW R1B12	SM170	SM19	ACC		Test done on cap outside
13	RIM BULKHEAD	RW R2B1	SM25	SM05	ACC		Test done on cap outside
14	VERTICAL RIM	RW R1V1	AR26	AR91	ACC		Test done on cap outside
15	VERTICAL RIM	RW R1V2	AR26	AR91	ACC		Test done on cap outside
16							
17							
18							
19							
20							

	PETROJET	ENPPI	PMC
Name :	Maher Kassem	Abd-Allah Fathy	M.Youssef
Sign :			
Date :			

EGPC

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Out Liquid Penetrant Test

PETROJET Enppi

Owner :	EGPC	Date :	25/6/2021
Consortium :	PTJ/ENPPI	Report No. :	23
Tank no. :	031-T-01	% Examination :	100%
DRW no :	1251-100-116-02-XX-D01-017		
Applicable Code / Specification :	API 650, ADD.11		
Penetrant	MR 68 C	Dwell Time :	10 Min.
Developer	MR 70	Developing Time :	10 Min.
Cleaner	MR 85	Surface Temperature	25 °c

Sr.No.	Item Type	JOINT No.	Welder no.		Interpretation		Remarks
			1	2	Acc.	Rej.	
1	VERTICAL RIM	RW R1V3	AR26	AR91	ACC		Test done on cap outside
2	VERTICAL RIM	RW R1V4	AR26	AR91	ACC		Test done on cap outside
3	VERTICAL RIM	RW R1V5	AR26	AR91	ACC		Test done on cap outside
4	VERTICAL RIM	RW R1V6	AR26	AR91	ACC		Test done on cap outside
5	VERTICAL RIM	RW R1V7	AR26	AR91	ACC		Test done on cap outside
6	VERTICAL RIM	RW R1V8	AR26	AR91	ACC		Test done on cap outside
7	VERTICAL RIM	RW R1V9	AR26	AR91	ACC		Test done on cap outside
8	VERTICAL RIM	RW R1V10	AR38	AR25	ACC		Test done on cap outside
9	VERTICAL RIM	RW R2V1	SM15	SM33	ACC		Test done on cap outside
10	VERTICAL RIM	RW R2V2	SM67	SM67	ACC		Test done on cap outside
11	VERTICAL RIM	RW R2V3	SM67	SM67	ACC		Test done on cap outside
12	VERTICAL RIM	RW R2V4	SM67	SM33	ACC		Test done on cap outside
13	VERTICAL RIM	RW R2V5	SM67	SM67	ACC		Test done on cap outside
14	VERTICAL RIM	RW R2V6	SM67	SM67	ACC		Test done on cap outside
15	VERTICAL RIM	RW R2V7	SM67	SM67	ACC		Test done on cap outside
16	LOWERDECK /RIM	RW RL1	AR26	AR91	ACC		Test done on cap outside
17	LOWERDECK /RIM	RW RL2	SM16	SM05	ACC		Test done on cap outside
18	RIM RAFTER JOINT	RW R1R	AR26	AR91	ACC		Test done on cap outside
19							
20							

	PETROJET	ENPPI	PMC
Name :	Maher Kassem	Abd-Allah Fathy	M.Youssef
Sign :	[signature]		[signature]
Date :			

12.A Magnetic Particle inspection Reports

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
Outside Magnetic Particle Inspection

EGPC | PETROJET | Enppi

Owner :	EGPC	Date :	15/6/2021
Consortium :	PTJ/ENPPI	Report No. :	44
Tank :	031-T-01	% Examination :	100%
DRW no :	0		
Applicable Code / Specification :	API 650 ADD.11		

Equipment	A.C Yoke	Material :	
Black Ink	MR 76 S	Surface Temperature :	25 °C
White Background	MR 72		

Method of Inspection

AC ☐ DC ☐ Permenan ☐ Wet ☐ Dry ☐ Others ☐

Sr.No.	Item Type	JOINT No.	Welder No. 1	Welder No. 2	Interpretation Acc.	Interpretation Rej.	Remarks
1	N10	RW N10W2	R35	P31	ACC		Test done on cap outside
2	N10	RW N10W4	R35	P31	ACC		Test done on cap outside
3	N10	RW N10W5	R35	P31	ACC		Test done on cap outside
4	N10	RW N10W6	R35	P31	ACC		Test done on cap outside
5	N10	RW N10W7	R35	P31	ACC		Test done on cap outside
6	N12	RW N12W2	P37	P58	ACC		Test done on cap outside
7	N12	RW N12W3	P105	P20	ACC		Test done on cap outside
8	SS	RWSS19	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
9	SS	RWSS20	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
10	SS	RWSS21	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
11	SS	RWSS22	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
12	SS	RWSS23	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
13	SS	RWSS24	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
14	SS	RWSS25	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside
15	SS	RWSS26	SM67 SM29	SM60/ SM33	ACC		Test done on cap outside

	PETROJET	ENPPI	PMC
Name :	Maher Kassem	Abd-Allah Fathy	M.Youssef
Sign :	[signature]		[signature]
Date :			

13. VACCUM TEST REPORTS

14. LEAK TEST REPORTS

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	1
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L01	ACC		
L02	ACC		
L03	ACC		
L04	ACC		
L05	ACC		
L06	ACC		
L07	ACC		
L08	ACC		
L09	ACC		
L10	ACC		
L11	ACC		
L12	ACC		
L13	ACC		
L14	ACC		
L15	ACC		
L16	ACC		
L17	ACC		
L18	ACC		
L19	ACC		
L20	ACC		
L21	ACC		
L22	ACC		
L23	ACC		
L24	ACC		
L25	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	2
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L26	ACC		
L27	ACC		
L28	ACC		
L29	ACC		
L30	ACC		
L31	ACC		
RW L32	ACC		
RW L33	ACC		
L34	ACC		
RW L35	ACC		
L36	ACC		
L37	ACC		
L38	ACC		
L39	ACC		
RW L40	ACC		
RW L41	ACC		
RW L42	ACC		
L43	ACC		
L44	ACC		
L45	ACC		
L46	ACC		
RW L47	ACC		
RW L48	ACC		
RW L49	ACC		
L50	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Moosa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	3
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L51	ACC		
L52	ACC		
RW L53	ACC		
RW L54	ACC		
RW L55	ACC		
RW L56	ACC		
RW L57	ACC		
RW L58	ACC		
L59	ACC		
RW L60	ACC		
RW L61	ACC		
RW L62	ACC		
L63	ACC		
L64	ACC		
L65	ACC		
L66	ACC		
L67	ACC		
L68	ACC		
L69	ACC		
L70	ACC		
L71	ACC		
L72	ACC		
L73	ACC		
L74	ACC		
RW L75	ACC		

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NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	4
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L76	ACC		
RW L77	ACC		
L78	ACC		
L79	ACC		
L80	ACC		
L81	ACC		
L82	ACC		
L83	ACC		
L84	ACC		
L85	ACC		
L86	ACC		
L87	ACC		
L88	ACC		
L89	ACC		
L90	ACC		
L91	ACC		
L92	ACC		
L93	ACC		
L94	ACC		
L95	ACC		
L96	ACC		
L97	ACC		
L98	ACC		
L99	ACC		
L100	ACC		

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NAME	Ebrahim Moussa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	5
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L101	ACC		
L102	ACC		
L103	ACC		
L104	ACC		
RW L105	ACC		
RW L106	ACC		
RW L107	ACC		
RW L108	ACC		
L109	ACC		
L110	ACC		
L111	ACC		
L112	ACC		
RW L113	ACC		
RW L114	ACC		
RW L115	ACC		
RW L116	ACC		
L117	ACC		
L118	ACC		
L119	ACC		
L120	ACC		
L121	ACC		
L122	ACC		
L123	ACC		
L124	ACC		
L125	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Rousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	6
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L126	ACC		
L127	ACC		
L128	ACC		
L129	ACC		
L130	ACC		
L131	ACC		
L132	ACC		
L133	ACC		
L134	ACC		
L135	ACC		
L136	ACC		
L137	ACC		
L138	ACC		
L139	ACC		
L140	ACC		
L141	ACC		
L142	ACC		
L143	ACC		
L144	ACC		
L144A	ACC		
L145	ACC		
L146	ACC		
L147	ACC		
L148	ACC		
L149	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Rousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	7
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L150	ACC		
L151	ACC		
L152	ACC		
L153	ACC		
RW L154	ACC		
RW L155	ACC		
RW L156	ACC		
RW L157	ACC		
L158	ACC		
L159	ACC		
L160	ACC		
L161	ACC		
L162	ACC		
L163	ACC		
RW L164	ACC		
RW L165	ACC		
RW L166	ACC		
L167	ACC		
RW L168	ACC		
L169	ACC		
RW L170	ACC		
L171	ACC		
L172	ACC		
L173	ACC		
L174	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	8
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L175	ACC		
L176	ACC		
L177	ACC		
RW L178	ACC		
RW L179	ACC		
L180	ACC		
L181	ACC		
L182	ACC		
L183	ACC		
L184	ACC		
L185	ACC		
L186	ACC		
RW L187	ACC		
RW L188	ACC		
L189	ACC		
L190	ACC		
L191	ACC		
L192	ACC		
L193	ACC		
L194	ACC		
L195	ACC		
L196	ACC		
RW L197	ACC		
RW L198	ACC		
L199	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	9
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L200	ACC		
L201	ACC		
L202	ACC		
L203	ACC		
L204	ACC		
RW L205	ACC		
RW L206	ACC		
RW L207	ACC		
L208	ACC		
L209	ACC		
L210	ACC		
L211	ACC		
L212	ACC		
L213	ACC		
RW L214	ACC		
RW L215	ACC		
RW L216	ACC		
RW L217	ACC		
L218	ACC		
L219	ACC		
L220	ACC		
L221	ACC		
L222	ACC		
RW L223	ACC		
RW L224	ACC		

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NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	10
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L225	ACC		
L226	ACC		
L227	ACC		
L228	ACC		
L229	ACC		
L230	ACC		
L231	ACC		
L232	ACC		
RW L233	ACC		
RW L234	ACC		
RW L235	ACC		
L236	ACC		
L237	ACC		
L238	ACC		
L239	ACC		
L240	ACC		
L241	ACC		
L242	ACC		
L243	ACC		
L244	ACC		
L245	ACC		
L246	ACC		
L247	ACC		
L248	ACC		
L249	ACC		

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NAME	Ebrahim Rowa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	11
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L250	ACC		
L251	ACC		
L252	ACC		
L253	ACC		
L254	ACC		
L255	ACC		
L256	ACC		
RW L257	ACC		
RW L258	ACC		
RW L259	ACC		
RW L260	ACC		
RW L261	ACC		
RW L262	ACC		
RW L263	ACC		
L264	ACC		
L265	ACC		
L266	ACC		
L267	ACC		
RW L268	ACC		
RW L269	ACC		
RW L270	ACC		
RW L271	ACC		
RW L272	ACC		
RW L273	ACC		
RW L274	ACC		

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NAME	Ebrahim Rousa		M.Youssef
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DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	12
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L275	ACC		
RW L276	ACC		
RW L277	ACC		
RW L278	ACC		
L279	ACC		
RW L280	ACC		
RW L281	ACC		
RW L282	ACC		
RW L283	ACC		
RW L284	ACC		
RW L285	ACC		
RW L286	ACC		
RW L287	ACC		
RW L288	ACC		
RW L289	ACC		
RW L290	ACC		
RW L291	ACC		
RW L292	ACC		
RW L293	ACC		
RW L294	ACC		
RW L295	ACC		
RW L296	ACC		
RW L297	ACC		
RW L298	ACC		
RW L299	ACC		

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NAME	Ebrahim Rousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	13
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2020/12/06
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L300	ACC		
RW L301	ACC		
RW L302	ACC		
RW L303	ACC		
RW L304	ACC		
RW L305	ACC		
RW L306	ACC		
RW L307	ACC		
RW L308	ACC		
RW L309	ACC		
RW L310	ACC		
RW L311	ACC		
RW L312	ACC		
RW L313	ACC		
RW L314	ACC		
RW L315	ACC		
L316	ACC		
L317	ACC		
L318	ACC		
L319	ACC		
RW L320	ACC		
RW L321	ACC		
RW L322	ACC		
RW L323	ACC		
RW L324	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Moussa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	14
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L325	ACC		
L326	ACC		
RW L327	ACC		
RW L328	ACC		
RW L329	ACC		
L330	ACC		
RW L331	ACC		
RW L332	ACC		
L333	ACC		
L334	ACC		
L335	ACC		
L336	ACC		
RW L337	ACC		
RW L338	ACC		
RW L339	ACC		
RW L340	ACC		
L341	ACC		
L342	ACC		
L343	ACC		
L344	ACC		
L345	ACC		
L346	ACC		
L347	ACC		
L348	ACC		
L349	ACC		

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	15
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L350	ACC		
RW L351	ACC		
RW L352	ACC		
RW L353	ACC		
L354	ACC		
L355	ACC		
L356	ACC		
L357	ACC		
L358	ACC		
L359	ACC		
L360	ACC		
RW L361	ACC		
RW L362	ACC		
RW L363	ACC		
RW L364	ACC		
L365	ACC		
L366	ACC		
L367	ACC		
L368	ACC		
L369	ACC		
L370	ACC		
L371	ACC		
L372	ACC		
L373	ACC		
RW L374	ACC		

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NAME	Ebrahim Mousa		M.Youssef
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DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	16
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L375	ACC		
RW L376	ACC		
L377	ACC		
L378	ACC		
L379	ACC		
L380	ACC		
L381	ACC		
RW L382	ACC		
RW L383	ACC		
L384	ACC		
RW L385	ACC		
RW L386	ACC		
RW L387	ACC		
RW L388	ACC		
L389	ACC		
RW L390	ACC		
RW L391	ACC		
RW L392	ACC		
RW L393	ACC		
RW L394	ACC		
RW L395	ACC		
RW L396	ACC		
RW L397	ACC		
RW L398	ACC		
L399	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Moussa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	17
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L400	ACC		
RW L401	ACC		
RW L402	ACC		
L403	ACC		
RW L404	ACC		
RW L405	ACC		
RW L406	ACC		
RW L407	ACC		
L408	ACC		
RW L409	ACC		
L410	ACC		
L411	ACC		
RW L412	ACC		
L413	ACC		
L414	ACC		
L415	ACC		
L416	ACC		
L417	ACC		
L418	ACC		
RW L419	ACC		
RW L420	ACC		
RW L421	ACC		
L422	ACC		
L423	ACC		
L424	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Moussa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت
Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	18
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L425	ACC		
L426	ACC		
L427	ACC		
RW L428	ACC		
RW L429	ACC		
RW L430	ACC		
L431	ACC		
L432	ACC		
L433	ACC		
RW L434	ACC		
L435	ACC		
L436	ACC		
L437	ACC		
RW L438	ACC		
RW L439	ACC		
L440	ACC		
L441	ACC		
L442	ACC		
L443	ACC		
L444	ACC		
L445	ACC		
L446	ACC		
RW L447	ACC		
RW L448	ACC		
RW L449	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت

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TANK SPECIFICATION

CLIENT	EGPC	REPORT No	19
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L450	ACC		
RW L451	ACC		
L452	ACC		
L453	ACC		
L454	ACC		
L455	ACC		
RW L456	ACC		
RW L457	ACC		
RW L458	ACC		
RW L459	ACC		
L460	ACC		
RW L461	ACC		
RW L462	ACC		
RW L463	ACC		
L464	ACC		
L465	ACC		
L466	ACC		
L467	ACC		
L468	ACC		
RW L469	ACC		
RW L470	ACC		
RW L471	ACC		
L472	ACC		
L473	ACC		
L474	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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Petroleum Pipelines Company

شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت

Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	20
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L475	ACC		
L476	ACC		
L477	ACC		
RW L478	ACC		
RW L479	ACC		
L480	ACC		
L481			
L482	ACC		
L483	ACC		
L484	ACC		
L485	ACC		
L486	ACC		
L487	ACC		
L488	ACC		
L489	ACC		
L490	ACC		
L491	ACC		
L492	ACC		
L493	ACC		
L494	ACC		
L495	ACC		
L496	ACC		
L497	ACC		
L498	ACC		
L499	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Rowsa		M.Youssef
SIGN	[signature]		[signature]
DATE			

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Petroleum Pipelines Company
شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت

Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	21
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
L500	ACC		
L501	ACC		
L502	ACC		
L503	ACC		
L504	ACC		
L505	ACC		
L506	ACC		
RW L507	ACC		
RW L508	ACC		
RW L509	ACC		
RW L510	ACC		
L511	ACC		
L512	ACC		
L513	ACC		
L514	ACC		
L515	ACC		
RW L516	ACC		
RW L517	ACC		
RW L518	ACC		
RW L519	ACC		
L520	ACC		
L521	ACC		
L522	ACC		
L523	ACC		
RW L524	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Roda		M.Youssef
SIGN	[signature]		[signature]
DATE			

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Petroleum Pipelines Company
شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت

Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	22
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L525	ACC		
RW L526	ACC		
RW L527	ACC		
L528	ACC		
L529	ACC		
L530	ACC		
RW L531	ACC		
RW L532	ACC		
RW L533	ACC		
RW L534	ACC		
RW L535	ACC		
L536	ACC		
L537	ACC		
L538	ACC		
L539	ACC		
L540	ACC		
L541	ACC		
L542	ACC		
L543	ACC		
L544	ACC		
L545	ACC		
L546	ACC		
RW L547	ACC		
RW L548	ACC		
RW L549	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	[signature]		[signature]
DATE			

EGPC

PETROJET

QA / QC DEPT.

LEAK TEST INSPECTION

PETROJET

Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	23
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L550	ACC		
L551	ACC		
L552	ACC		
L553	ACC		
RW L554	ACC		
RW L555	ACC		
L556	ACC		
L557	ACC		
L558	ACC		
L559	ACC		
RW L560	ACC		
RW L561	ACC		
RW L562	ACC		
L563	ACC		
L564	ACC		
L565	ACC		
L566	ACC		
L567	ACC		
L568	ACC		
L569	ACC		
RW L570	ACC		
RW L571	ACC		
RW L572	ACC		
RW L573	ACC		
L574	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN	Ebr		M.Youssef
DATE			

EGPC PETROJET
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Petroleum Pipelines Company
شركة أنابيب البترول

LEAK TEST INSPECTION

PETROJET بتروجت
Enppi

TANK SPECIFICATION

CLIENT	EGPC	REPORT No	24
PROJECT NAME	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) MODULE 31		
TANK NO.	31-T-01	DOCUMENT NO.	PTJ-NDT-GOT
TANK DIAMETER	110 M	DATE	2021/06/25
TYPE of Test	OIL CHALK	SOLVENT	Outside
SPECS OR CODE	API 650, EDD 11	Dwell Time	60 Mint

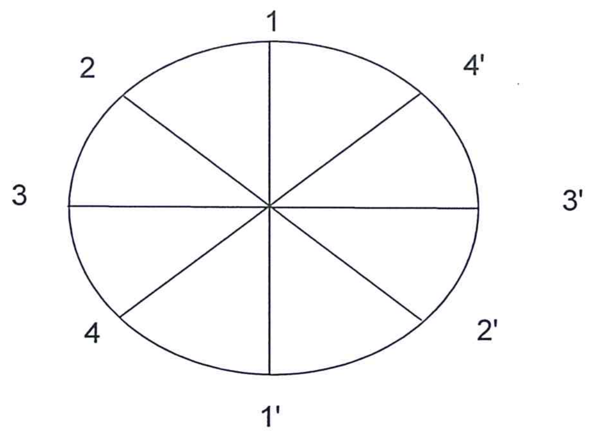
WELD NO.	RESULT		REMARKS
	ACC.	REJ.	
RW L575	ACC		
RW L576	ACC		
RW L577	ACC		
L578	ACC		
L579	ACC		
L580	ACC		
L581	ACC		
L582	ACC		
L583	ACC		
L584	ACC		
L585	ACC		
L586	ACC		
L587	ACC		
L588	ACC		
L589	ACC		
L590	ACC		
L591	ACC		
L592	ACC		
L593	ACC		
L594	ACC		
L595	ACC		
L596	ACC		
L597	ACC		
L598	ACC		
L599	ACC		

	PETROJET	ENPPI	PMC
NAME	Ebrahim Moussa		M.Youssef
SIGN	[signature]		[signature]
DATE			

15. ROUNDNESS CHECK REPORTS

ROUNDNESS CHECK REPORT

DATE	24/06/2021	REPORT NO. :	(1)
CLIENT	EGPC	TANK NO.	031-TK-001
PROJECT NAME	CRUDE OIL TANK FARM	Code	API 650
SERVICE	CRUDE OIL	LEVEL	1 FOOT FROM TANK BOTTOM



Check Points Diviations					
1-1'	2-2'	3-'3	4-4'	RESULT	REMARKS
14	17	12	8	ACC	
11	17	15	18	ACC	
14	15	17	13	ACC	
8	11	14	15	ACC	
9	18	15	13	ACC	

NOTES:

7.5.3 Radii measured at 0.3 m (1 ft) above the bottom corner weld shall not exceed the following tolerances: ± 19 (3/4)

JOB TITEL	PETROJET	ENPPI	PMC
NAME	Ebrahim Mousa		M.Youssef
SIGN.	[signature]		[signature]
DATE			

16. PEAKING CHECK REPORTS

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC

Consortium : PTJ/ENPPI

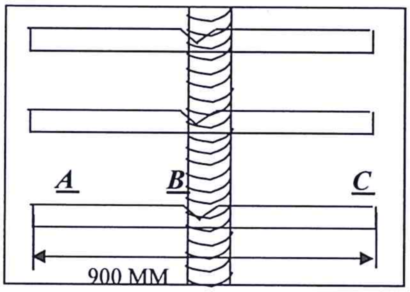
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, AWS D.11

Report no	1
DATE	23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V06	4	2	2	4	2	1	2	1	3	ACC
V07	4	2	0	1	0	1	1	1	3	ACC
V29	1	1	1	1	1	0	0	0	4	ACC
V30	0	0	0	0	0	0	0	0	2	ACC



1

2

3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

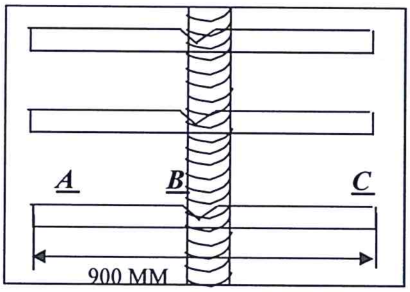
CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, AWS D.11

Report no	2
DATE	23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V01	1	1	0	1	0	3	3	1	0	ACC
V02	2	2	1	2	2	1	1	1	1	ACC
V03	1	1	1	0	0	0	1	0	3	ACC
V04	2	2	2	1	1	2	2	2	0	ACC
V05	1	0	0	1	0	0	0	0	-6	ACC
V17	0	1	0	3	1	2	4	2	2	ACC
V21	2	1	1	3	1	1	1	1	0	ACC
V22	0	0	0	0	0	0	0	0	0	ACC
V26	1	1	1	1	0	0	0	1	0	ACC
V27	1	2	1	1	2	1	1	2	1	ACC
V28	0	0	0	0	-1	-2	-1	-2	-1	ACC



1
2
3

	PTJ	Enppi	PPC
Name	Ebrahim Rouva		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company

شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت

Enppi

Client : EGPC

Consortium : PTJ/ENPPI

TANK NO.:031-T-001

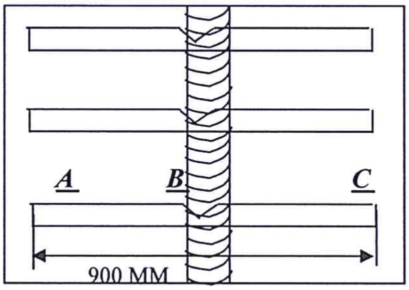
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, AWS D.11

Report no 3

DATE 23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V12	1-	3-	1-	1-	3-	1-	1-	3-	1-	ACC
V15	2-	4-	2-	2-	4-	2-	2-	4-	2-	ACC
V16	0	0	0	0	0	0	0	0	0	ACC
V18	0	1-	0	0	1-	0	0	1-	0	ACC
V19	1+	2+	1+	2+	4+	2+	1+	1+	1+	ACC
V20	2+	4+	2+	3+	6+	3+	2+	4+	2+	ACC



1

2

3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

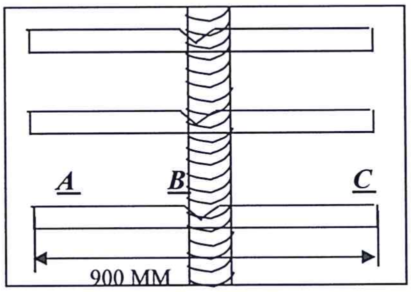
CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, AWS D.11

Report no	4
DATE	23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V13	1	2	1	1	2	1	1	2	1	ACC
V28	0	0	0	0	-1	-2	-1	-2	-1	ACC



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2
3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت | Enppi

Client : EGPC

Consortium : PTJ/ENPPI

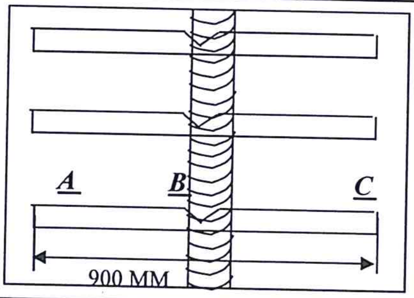
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no	5
DATE	23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V11	2	4	2	0	1	0	1	1	1	ACC
V14	1	1	1	1	1	1	0	0	0	ACC



1

2

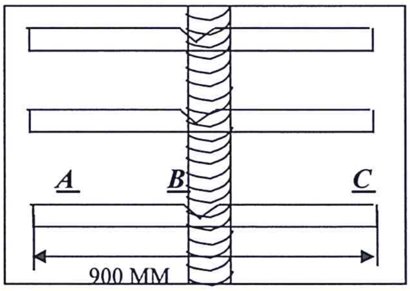
3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

	CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT	
EGPC / Petroleum Pipelines Company شركة أنابيب البترول		PETROJET بتروجت / Enppi

Client : EGPC			
Consortium : PTJ/ENPPI		Report no	6
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	23/06/2021
Applicable Code / Specification : API 650, ADD 11			

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V32	2	4	2	0	1	0	1	1	1	ACC
V33	1	1	1	1	1	1	0	0	0	ACC
V34	0	0	0	0	0	0	0	0	0	ACC
V35	2	4	2	2	4	2	1	1	1	ACC
V36	1	1	1	1	1	1	0	0	0	ACC
V37	1	0	1	0	0	2	4	2	0	ACC
V38	3	3	3	3	2	3	3	1	3	ACC
V39	1	2	2	2	3	3	3	2	3	ACC
V40	3	1	3	3	1	3	3	1	4	ACC
V41	2	1	2	2	2	2	2	1	2	ACC
V42	0	2-	0	0	2-	0	0	2-	0	ACC
V43	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V44	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V45	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V46	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V47	0	0	0	0	0	0	0	0	0	ACC
V48	1	1	1	1	0	0	0	1	0	ACC
V49	1	2	1	1	2	1	1	2	1	ACC
V50	0	0	0	0	-1	-2	-1	-2	-1	ACC
V51	0	1-	0	0	1-	0	0	1-	0	ACC
V52	1+	2+	1+	2+	4+	2+	1+	1+	1+	ACC



1

2

3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

EGPC	CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT	PETROJET / Enppi

Client : EGPC

Consortium : PTJ/ENPPI

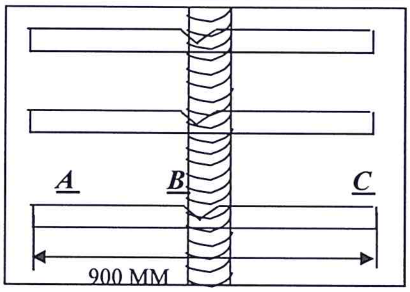
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no	7
DATE	23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V54	0	0	0	0	0	0	0	0	0	ACC
V55	1	2	1	1	2	1	1	2	1	ACC
V56	0	0	0	0	-1	-2	-1	-2	-1	ACC
V57	0	-1	0	0	-1	0	0	0	0	ACC
V58	0	0	0	0-1	-2	-1	-1	-2	-1	ACC
V59	1	2	2	2	3	3	3	2	3	ACC
V60	3	1	3	3	1	3	3	1	4	ACC
V61	2	1	2	2	2	2	2	1	2	ACC
V62	1	3	1	1	3	1	2	3	2	ACC
V63	0	0	0	0	0	0	0	0	0	ACC
V64	1	2	1	1	2	1	0	0	0	ACC
V65	1	2	1	0	1	0	0	0	0	ACC
V66	1	3	1	1	2	1	1	0	0	ACC
V67	3	6	3	3	6	3	1	2	1	ACC
V68	1	2	1	1	2	1	1	2	1	ACC
V69	4	8	4	6	12	6	5	10	5	ACC
V70	-2	-3	-2	-2	-4	-2	0	0	0	ACC
V71	1	2	1	1	2	1	1	2	1	ACC
V72	2	4	2	2	4	2	3	3	3	ACC
V73	1	2	1	1	2	1	0	1	0	ACC
V74	1	2	1	1	3	1	2	4	2	ACC



1

2

3

	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت | Enppi

Client : EGPC

Consortium : PTJ/ENPPI

TANK NO.:031-T-001

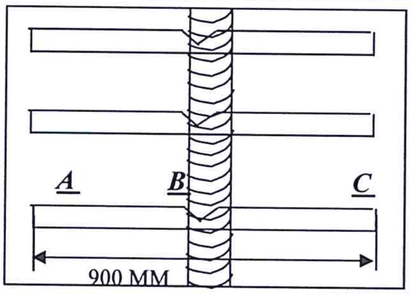
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no 8

DATE 23/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V75	2	1	2	2	2	2	2	1	2	ACC
V76	1	3	1	1	3	1	2	3	2	ACC
V77	0	0	0	0	0	0	0	0	0	ACC
V78	1	2	1	1	2	1	0	0	0	ACC
V79	1	2	1	0	1	0	0	0	0	ACC
V80	1	3	1	1	2	1	1	0	0	ACC
V81	3	6	3	3	6	3	1	2	1	ACC
V82	1	2	1	1	2	1	1	2	1	ACC
V83	4	8	4	6	12	6	5	10	5	ACC
V84	-2	-3	-2	-2	-4	-2	0	0	0	ACC
V85	1	2	1	1	2	1	1	2	1	ACC



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	PTJ	Enppi	PPC
Name	Ebrahim Moosa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت

Enppi

Client : EGPC

Consortium : PTJ/ENPPI

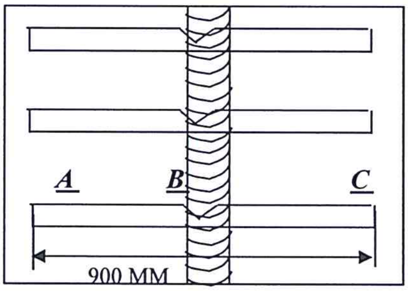
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no	9
DATE	24/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V86	2+	2+	2+	2+	4+	2+	1+	2+	1+	ACC
V87	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V88	1+	1+	1+	2-	4-	2-	1+	1+	1+	ACC
V89	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V90	0	0	0	0	0	0	0	0	0	ACC
V91	0	1+	0	0	1+	0	0	1+	0	ACC
V92	2+	4+	2+	2+	1+	2+	2+	2+	2+	ACC
V93	1-	3-	1-	1-	3-	1-	1-	3-	1-	ACC
V94	2-	4-	2-	2-	4-	2-	2-	4-	2-	ACC
V95	0	0	0	0	0	0	0	0	0	ACC
V96	0	1-	0	0	1-	0	0	1-	0	ACC
V97	1+	2+	1+	2+	4+	2+	1+	1+	1+	ACC
V98	2+	4+	2+	3+	6+	3+	2+	4+	2+	ACC
V99	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V100	0	0	0	0	0	0	0	0	0	ACC
V101	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V102	2-	4-	2-	3-	6-	3-	2-	4-	2-	ACC
RW V103	1-	3-	1-	2-	4-	2-	1-	3-	1-	ACC
V104	2+	4+	2+	2+	4+	2+	2+	4+	2+	ACC
V105	1+	1+	1+	1+	1+	1+	1+	1+	1+	ACC



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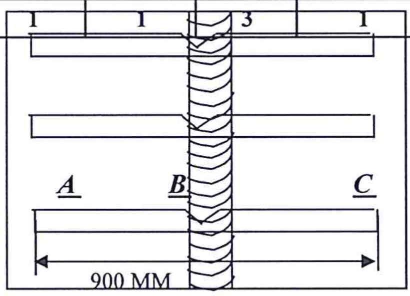
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	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC	CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT	PETROJET Enppi

Client : EGPC			
Consortium : PTJ/ENPPI		Report no	10
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	24/06/2021
Applicable Code / Specification : API 650, ADD 11			

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V106	-2	-4	-2	-2	-5	-2	-2	-5	-5	ACC
V107	0	0	0	-1	-2	-1	-1	-2	-1	ACC
V108	1	2	1	1	2	1	0	0	0	ACC
V109	-1	-2	-1	-1	-2	-1	0	0	0	ACC
V110	0	0	0	0	0	0	-1	-2	-1	ACC
V111	1	3	1	1	3	1	1	3	1	ACC
V112	-2	-5	-2	-2	-3	-6	-3	-7	-3	ACC
V113	2	4	2	2	4	2	1	2	1	ACC
V114	2	4	2	0	1	0	1	1	1	ACC
V115	1	1	1	1	1	1	0	0	0	ACC
V116	0	0	0	0	0	0	0	0	0	ACC
V117	2	4	2	2	4	2	1	1	1	ACC
V118	1	1	1	1	1	1	0	0	0	ACC
V119	1	0	1	0	0	2	4	2	0	ACC
V121	1	1	1	0	1	0	3	3	1	ACC
V122	2	2	2	1	2	2	1	1	1	ACC
V123	1	1	1	1	0	0	0	1	0	ACC
V124	1	2	2	2	1	1	2	2	2	ACC
V125	0	1	0	0	1	0	0	0	0	ACC
V127	1	0	1	0	3	1	2	4	2	ACC
	1	2	1	1	3	1	1	1	1	



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	PTJ	Enppi	PPC
Name	Ebrahim Rousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC

Consortium : PTJ/ENPPI

TANK NO.:031-T-001

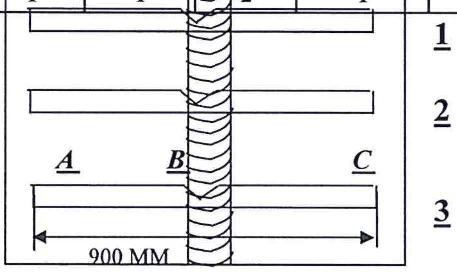
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no: 11

DATE: 24/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V130	2	4	2	0	1	0	1	1	1	ACC
RW V131	1	1	1	1	1	1	0	0	0	ACC
V132	0	0	0	0	0	0	0	0	0	ACC
V133	2	4	2	2	4	2	1	1	1	ACC
RW V134	1	1	1	1	1	1	0	0	0	ACC
V136	1	0	1	0	0	2	4	2	0	ACC
V137	3	3	3	3	2	3	3	1	3	ACC
V138	1	2	2	2	3	3	3	2	3	ACC
V139	3	1	3	3	1	3	3	1	4	ACC
V141	2	1	2	2	2	2	2	1	2	ACC
RW V157	0	2-	0	0	2-	0	0	2-	0	ACC
RW V158	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
RW V159	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
RW V160	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V161	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V162	0	0	0	0	0	0	0	0	0	ACC
V163	1	1	1	1	0	0	0	1	0	ACC
V164	1	2	1	1	2	1	1	2	1	ACC
V165	0	0	0	0	-1	-2	-1	-2	-1	ACC
V166	0	1-	0	0	1-	0	0	1-	0	ACC
V171	1+	2+	1+	2+	4+	2+	1+	1+	1+	ACC
	1	2	1	1	2	1	1	2	1	



	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

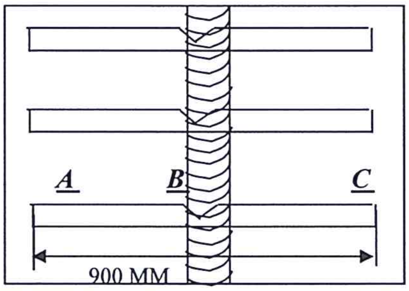
EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT

PETROJET بتروجت | Enppi

Client : EGPC			
Consortium : PTJ/ENPPI		Report no	12
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	24/06/2021
Applicable Code / Specification : API 650, ADD 11			

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V172	3	1	3	3	1	3	3	1	4	ACC
V173	2	1	2	2	2	2	2	1	2	ACC
V174	-6	12	-6	-6	-12	-6	-6	-12	-6	ACC
V175	1	3	1	1	3	1	2	3	2	ACC
V176	1	2	1	1	2	1	1	2	1	ACC
V177	4	8	4	4	8	4	3	6	3	ACC
V178	-2	-3	-2	-2	-4	-2	0	0	0	ACC
V179	-2	-5	-2	-2	-4	-2	0	0	0	ACC
V180	4	8	4	5	10	5	2	5	2	ACC
V181	1	2	1	1	3	1	2	4	2	ACC
V182	1	1	1	1	1	1	0	0	0	ACC
V183	0	0	0	0	0	0	0	0	0	ACC
V184	2	4	2	2	4	2	1	1	1	ACC
RW V185	3	1	3	3	1	3	3	1	4	ACC
RW V186	2	1	2	2	2	2	2	1	2	ACC
V187	1	3	1	1	3	1	2	3	2	ACC
V188	0	0	0	0	0	0	0	0	0	ACC
V189	1	2	1	1	2	1	0	0	0	ACC
V190	1-	2-	1-	1-	2-	1-	1-	2-	1-	ACC
V191	0	0	0	0	0	0	0	0	0	ACC
V192	1-	2-	1-	1-	2-	1-	1-	2-	1-	ACC
V193	2-	4-	2-	2-	4-	2-	1-	2-	1-	ACC



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	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

EGPC	Petroleum Pipelines Company شركة أنابيب البترول	CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT	PETROJET بتروجت	Enppi

Client : EGPC

Consortium : PTJ/ENPPI

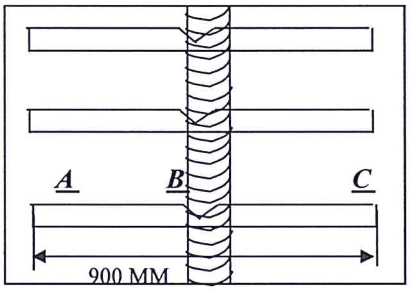
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD 11

Report no	13
DATE	24/06/2021

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V194	3	1	3	3	1	3	3	1	4	ACC
V195	2	1	2	2	2	2	2	1	2	ACC
V196	0	2-	0	0	2-	0	0	2-	0	ACC
V197	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V198	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V199	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V200	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V201	0	0	0	0	0	0	0	0	0	ACC
V202	2	2	2	1	2	2	1	1	1	ACC
V203	1	1	1	1	0	0	0	1	0	ACC
V204	1	2	2	2	1	1	2	2	2	ACC
V205	0	1	0	0	1	0	0	0	0	ACC
V206	1	0	1	0	3	1	2	4	2	ACC
V207	1	2	1	1	3	1	1	1	1	ACC
V208	3	3	3	3	3	3	0	0	0	ACC
V209	-6	12	-6	-6	-12	-6	-6	-12	-6	ACC
V210	1	3	1	1	3	1	2	3	2	ACC
V211	0	0	0	0	0	0	0	0	0	ACC
RW V212	1	2	1	1	2	1	0	0	0	ACC
RW V213	3	6	3	3	6	3	1	2	1	ACC
RW V214	1	2	1	1	2	1	1	2	1	ACC
RW V215	4	8	4	6	12	6	5	10	5	ACC



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	PTJ	Enppi	PMC
Name	Ebrahim Aboud		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

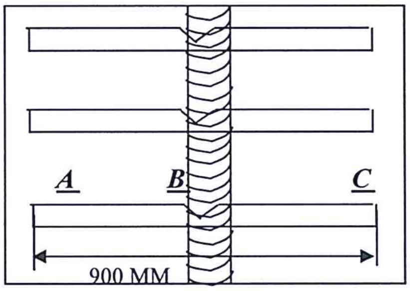
CRUDE OIL TANK FARM PROJECT (AGROOD AREA) PEAKING REPORT

PETROJET بتروجت

Enppi

Client : EGPC			
Consortium : PTJ/ENPPI	Report no	14	
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017	DATE	24/06/2021	
Applicable Code / Specification : API 650, ADD 11			

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V216	3	1	3	3	1	3	3	1	4	ACC
V217	2	1	2	2	2	2	2	1	2	ACC
V218	0	2-	0	0	2-	0	0	2-	0	ACC
V219	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V220	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V221	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V222	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V223	0	0	0	0	0	0	0	0	0	ACC
V224	2	2	2	1	2	2	1	1	1	ACC
V225	1	1	1	1	0	0	0	1	0	ACC
V226	1	2	2	2	1	1	2	2	2	ACC
V227	0	1	0	0	1	0	0	0	0	ACC
V228	1	0	1	0	3	1	2	4	2	ACC
V229	1	2	1	1	3	1	1	1	1	ACC
V230	3	3	3	3	3	3	0	0	0	ACC
V231	-6	12	-6	-6	-12	-6	-6	-12	-6	ACC
V232	1	3	1	1	3	1	2	3	2	ACC
V233	0	0	0	0	0	0	0	0	0	ACC
V234	1	2	1	1	2	1	0	0	0	ACC
V235	3	6	3	3	6	3	1	2	1	ACC
V236	1	2	1	1	2	1	1	2	1	ACC
V237	4	8	4	6	12	6	5	10	5	ACC



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	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

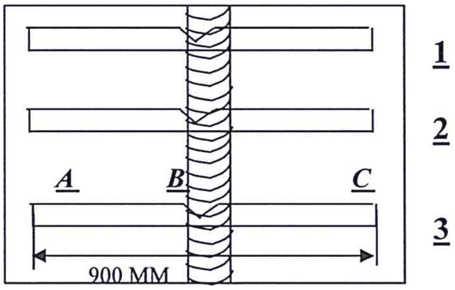
EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

PETROJET بتروجت | Enppi

Client : EGPC			
Consortium : PTJ/ENPPI		Report no	15
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	24/06/2021
Applicable Code / Specification : API 650, ADD 11			

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V8	3	1	3	3	1	3	3	1	4	ACC
V9	2	1	2	2	2	2	2	1	2	ACC
V10	0	2-	0	0	2-	0	0	2-	0	ACC
V23	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V24	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V25	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V53	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V120	0	0	0	0	0	0	0	0	0	ACC
V128	2	2	2	1	2	2	1	1	1	ACC
V129	1	1	1	1	0	0	0	1	0	ACC
V135	1	2	2	2	1	1	2	2	2	ACC
V140	0	1	0	0	1	0	0	0	0	ACC
V142	1	0	1	0	3	1	2	4	2	ACC
V143	1	2	1	1	3	1	1	1	1	ACC
V144	3	3	3	3	3	3	0	0	0	ACC
V145	-6	12	-6	-6	-12	-6	-6	-12	-6	ACC
V146	1	3	1	1	3	1	2	3	2	ACC
V147	0	0	0	0	0	0	0	0	0	ACC
V148	1	2	1	1	2	1	0	0	0	ACC
V149	3	6	3	3	6	3	1	2	1	ACC
V150	1	2	1	1	2	1	1	2	1	ACC
V151	4	8	4	6	12	6	5	10	5	ACC



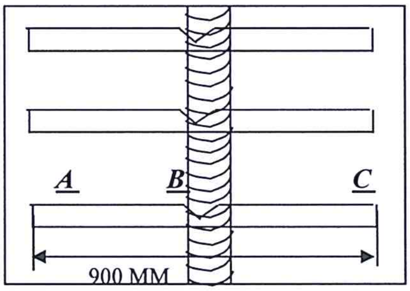
	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC		
Consortium : PTJ/ENPPI	Report no	16
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	24/06/2021
Applicable Code / Specification : API 650, ADD 11		

JOINT NO.	MEASUREMENT(1)			MEASUREMENT(2)			MEASUREMENT(3)			Evaluation
	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	A(mm)	B(mm)	C(mm)	
V152	0	0	0	1-	2-	1-	1-	2-	1-	ACC
V153	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V154	0	0	0	1+	2+	1+	0	0	0	ACC
V155	0	0	0	0	0	0	0	0	0	ACC
V156	1+	2+	1+	1+	3+	1+	1+	3+	1+	ACC
V167	0	0	0	0	0	0	0	0	0	ACC
V168	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V169	2-	4-	2-	3-	6-	3-	2-	4-	2-	ACC
V170	1-	3-	1-	2-	4-	2-	1-	3-	1-	ACC
RW V238	2+	4+	2+	2+	4+	2+	2+	4+	2+	ACC
RW V239	1+	1+	1+	1+	1+	1+	1+	1+	1+	ACC
RW V240	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
RW V241	2-	4-	2-	3-	6-	3-	2-	4-	2-	ACC
RW V157A	2-	4-	2-	3-	6-	3-	2-	4-	2-	ACC
RW V160A	1-	3-	1-	2-	4-	2-	1-	3-	1-	ACC
RW V185A	2+	4+	2+	2+	4+	2+	2+	4+	2+	ACC



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	PTJ	Enppi	PMC
Name	Ebrahim Rousa		M.Youssef
Sign.	[signature]		[signature]
Date			

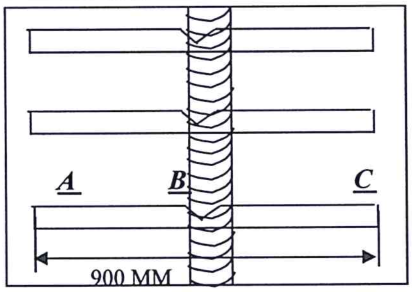
CRUDE OIL TANK FARM PROJECT
(AGROOD AREA)
PEAKING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC
Consortium : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD 11

Report no: 17
DATE: 24/06/2021

JOINT NO.	MEASUREMENT(1) A(mm)	MEASUREMENT(1) B(mm)	MEASUREMENT(1) C(mm)	MEASUREMENT(2) A(mm)	MEASUREMENT(2) B(mm)	MEASUREMENT(2) C(mm)	MEASUREMENT(3) A(mm)	MEASUREMENT(3) B(mm)	MEASUREMENT(3) C(mm)	Evaluation
V238	3	3	3	3	2	3	3	1	3	ACC
V239	1	2	2	2	3	3	3	2	3	ACC
V240	3	1	3	3	1	3	3	1	4	ACC
V241	2	1	2	2	2	2	2	1	2	ACC
RW V242	0	2-	0	0	2-	0	0	2-	0	ACC
V243	1+	2+	1+	2+	4+	2+	1+	2+	1+	ACC
V244	1+	2+	1+	1+	2+	1+	1+	2+	1+	ACC
V245	2-	4-	2-	3-	6-	3-	1-	2-	1-	ACC
V246	1-	2-	1-	1-	3-	1-	1-	3-	1-	ACC
V247	2-	4-	2-	3-	6-	3-	2-	4-	2-	ACC



1
2
3

	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

17. BANDING CHECK REPORTS

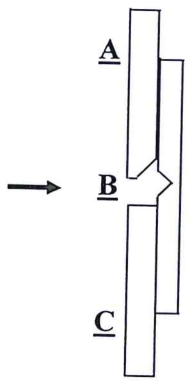
EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت | Enppi

Client : EGPC
Main Contractor : PTJ/ENPPI
Project No. :
TANK NO.:031-T-001
Report no 1
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD.11
DATE 23/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T59-T60	1+	1+	2+	
T60-T61	0	0	2-	
T61-T62	1+	1+	2+	
T62-T63	1+	1+	2+	
T63-T64	1-	1-	2-	
T64-T65	0	0	0	
T65-T66	1-	1-	2-	
T66-T67	1-	1-	3-	
T67-T68	0	0	1-	
T68-T69	1+	1+	2+	
T69-T70	1+	1+	3+	
T70-T71	1-	1-	2-	
T71-T72	1-	1-	2-	
T72-T73	0	0	1-	
T73-T74	2-	2-	4-	
T74-T75	1-	1-	2-	
T75-T76	1+	1+	3+	
T76-T77	0	0	0	



	PTJ	Enppi	PPC
Name	Ebrahim Rousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

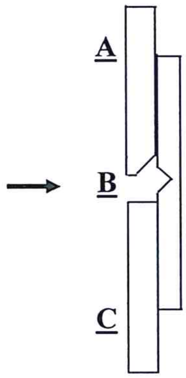
Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت Enppi

Client : EGPC	Project No. :
Main Contractor : PTJ/ENPPI	Report no 2
TANK NO.:031-T-001	
DRW no : 1251-100-116-02-XX-D01-017	DATE 23/06/2021
Applicable Code / Specification : API 650, ADD.11	

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T77-T78	4+	1+	2+	
T78-T79	2+	1+	1+	
T79-T80	6-	1-	3-	
T80-T81	3-	1-	1-	
T81-T82	0	0	0	
T82-T83	3-	1-	1-	
T83-T84	2-	1-	1-	
T84-T85	1-	0	0	
T85-T86	4+	1+	2+	
T86-T87	2+	1+	1+	
T87-T88	4-	1-	2-	
T88-T89	3-	1-	1-	
T89-T90	1-	0	0	
T90-T91	4-	2-	2-	
T91-T92	5-	1-	2-	
T92-T93	4+	1+	2+	
T93-T94	1+	0	0	
T94-T95	1+	1+	2+	



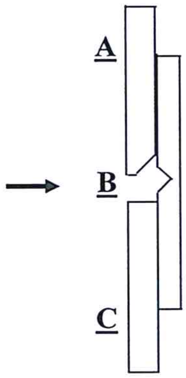
	PTJ	Enppi	PPC
Name	Ebrahim Rousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC	Project No. :	
Main Contractor : PTJ/ENPPI	Report no	3
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T95-T96	3	3	6	
T96-T97	1	1	2	
T97-T98	4	4	8	
T98-T99	-2	-2	-3	
T99-T100	1	1	2	
T100-T101	2	2	4	
T101-T102	1	1	2	
T102-T103	1	1	2	
T103-T104	1	1	3	
T104-T105	0	0	2-	
T105-T106	1+	1+	2+	
T106-T107	1+	1+	2+	
T107-T108	1-	1-	2-	
T108-T109	1-	1-	3-	
T109-T110	0	0	0	
T110-T111	0	0	1	
T111-T112	1	1	2	
T112-T113	-1	-1	-2	



	PTJ	Enppi	PPC
Name	Ebrahim Moussa		M.Youssef
Sign.	Ebr		M.Youssef
Date			

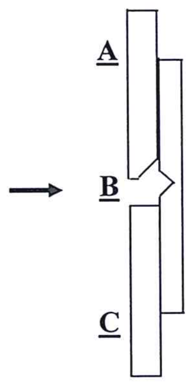
EGPC

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET Enppi

Client : EGPC	Project No. :	
Main Contractor : PTJ/ENPPI	Report no	4
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T113-T114	4+	1+	2+	
T114-T115	2+	1+	1+	
T115-T116	6-	1-	3-	
T116-T117	3-	1-	1-	
T117-T118	0	0	0	
T118-T119	3-	1-	1-	
T119-T120	2-	1-	1-	
T120-T121	1-	0	0	
T121-T122	4+	1+	2+	
T122-T123	2+	1+	1+	
T123-T124	4-	1-	2-	
T124-T125	3-	1-	1-	
T125-T126	1-	0	0	
T126-T127	4-	2-	2-	
T127-T128	5-	1-	2-	
T128-T129	4+	1+	2+	
T129-T130	1+	0	0	
T130-T131	1+	1+	2+	



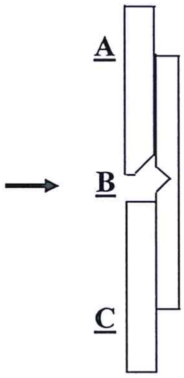
	PTJ	Enppi	PPC
Name	Ebrahim Aousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC — Petroleum Pipelines Company شركة أنابيب البترول — PETROJET بتروجت — Enppi

Client : EGPC		Project No. :	
Main Contractor : PTJ/ENPPI		Report no	5
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11			

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T131-T132	1+	1+	2+	
T132-T133	2	2	1	
T133-T134	0	0	2-	
T134-T135	1+	1+	2+	
T135-T136	1+	1+	2+	
T136-T137	2-	2-	4-	
T137-T138	1-	1-	2-	
T138-T139	0	0	0	
T139-T140	1	1	1	
T140-T141	0	0	0	
T141-T142	1	1	2	
T142-T143	0	0	1	
T143-T144	1	1	2	
T144-T145	3	3	6	
T145-T146	1	1	2	
T146-T147	1	1	2	
RW T147-T148	5	5	10	
RW T148--T149	1-	1-	2-	



	PTJ	Enppi	PPC
Name	Ebrahim Moussa		M.Youssef
Sign.	[signature]		[signature]
Date			

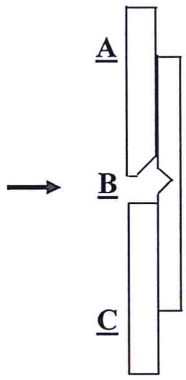
EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت | Enppi

Client :	EGPC	Project No. :	
Main Contractor :	PTJ/ENPPI	Report no	6
TANK NO.:031-T-001			
DRW no :	1251-100-116-02-XX-D01-017	DATE	23/06/2021
Applicable Code / Specification :	API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T149-T150	1+	1+	2+	
T150-T151	2	2	1	
T151-T152	0	0	2-	
T152-T153	1+	1+	2+	
T153-T154	1+	1+	2+	
T154-T155	2-	2-	4-	
T155-T156	1-	1-	2-	
T156-T157	0	0	0	
T157-T158	1	1	1	
T158-T159	0	0	0	
T159-T160	1	1	2	
T160-T161	0	0	1	
T161-T162	1	1	2	
T162-T163	3	3	6	
T163-T164	1	1	2	
T164-T165	1	1	2	
T165-T166	5	5	10	
T166-T167	1-	1-	2-	



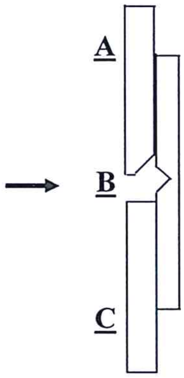
	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC — Petroleum Pipelines Company شركة أنابيب البترول — PETROJET بتروجت — Enppi

Client : EGPC	Project No. :	
Main Contractor : PTJ/ENPPI	Report no	7
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T168-T169	1-	1-	2-	
T169-T170	1-	1-	3-	
T170-T171	0	0	1-	
T171-T172	1+	1+	2+	
T172-T173	1+	1+	3+	
T173-T174	1-	1-	2-	
T174-T175	1-	1-	2-	
T175-T176	0	0	1-	
T176-T177	2-	2-	4-	
T177-T178	1-	1-	2-	
T178-T179	1+	1+	3+	
T179-T180	0	0	1+	
T180-T181	2-	2-	4-	
T181-T182	2-	2-	5-	
T182-T183	2+	2+	4+	
T183-T184	0	0	1+	
T184-T185	1+	1+	2+	
T185-T186	0	0	0	



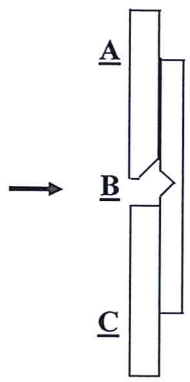
	PTJ	Enppi	PPC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC		Project No. :	
Main Contractor : PTJ/ENPPI		Report no	8
TANK NO.:031-T-001			
DRW no : 1251-100-116-02-XX-D01-017		DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11			

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T186-T187	3	3	2	
T187-T188	3	4	1	
T188-T189	2	2	1	
T189-T190	2	2	3	
T190-T191	0	0	0	
T191-T192	0	0	0	
T192-T193	0	0	0	
T193-T194	1	0	0	
T194-T195	1	1	2	
T195-T196	1	1	2	
T196-T197	5	5	10	
T197-T198	0	0	0	
T198-T199	1	1	2	
T199-T200	3	3	3	
T200-T201	0	0	1	
RW T201-T202	2	2	4	
RW T202-T203	1	1	2	
RW T203-T204	0	-2	-1	



	PTJ	Enppi	PPC
Name	Ebrahim Noura		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت | Enppi

Client : EGPC

Main Contractor : PTJ/ENPPI

TANK NO.:031-T-001

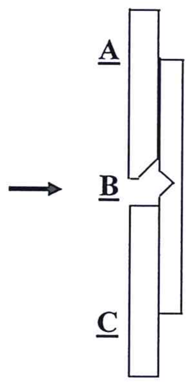
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD.11

Project No. :

Report no	9
DATE	23/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T204-T205	1+	1+	2+	
T205-T206	2	2	1	
T206-T207	0	0	2-	
T207-T208	1+	1+	2+	
T208-T209	1+	1+	2+	
T209-T210	2-	2-	4-	
T210-T211	1-	1-	2-	
T211-T212	0	0	0	
T212-T213	1	1	1	
T213-T214	0	0	0	
T214-T215	1	1	2	
T215-T216	0	0	1	
T216-T217	1	1	2	
T217-T218	3	3	6	
T218-T219	1	1	2	
T219-T220	1	1	2	
T220-T221	5	5	10	
T221-T222	1-	1-	2-	



	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	Ebr		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC — Petroleum Pipelines Company شركة أنابيب البترول — PETROJET بتروجت — Enppi

Client : EGPC

Project No. :

Main Contractor : PTJ/ENPPI

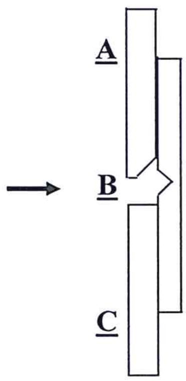
TANK NO.:031-T-001

DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD.11

Report no	10
DATE	23/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T222-T223	1	1	1	
T223-T224	0	0	0	
T224-T225	2	2	4	
T225-T226	1	1	1	
T226-T227	1	1	0	
T227-T228	3	3	3	
T228-T229	1	2	2	
T229-T230	3	3	1	
T230-T231	2	2	1	
T231-T232	0	0	2-	
T232-T233	1+	1+	2+	
T233-T234	1+	1+	2+	
T234-T235	2-	2-	4-	
T235-T236	1-	1-	2-	
T236-T237	0	0	0	
T237-T238	1	1	1	
T238-T239	1	1	2	
T239-T240	0	0	0	



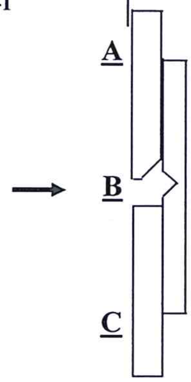
	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC — Petroleum Pipelines Company شركة أنابيب البترول — PETROJET بتروجت — Enppi

Client : EGPC	Project No. :
Main Contractor : PTJ/ENPPI	Report no 11
TANK NO.:031-T-001	
DRW no : 1251-100-116-02-XX-D01-017	DATE 23/06/2021
Applicable Code / Specification : API 650, ADD.11	

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T240-T241	3	3	6	
T241-T242	1	1	2	
T242-T243	4	4	8	
T243-T244	-2	-2	-3	
T244-T245	1	1	2	
T245-T246	2	2	4	
T246-T247	1	1	2	
T247-T248	1	1	2	
T248-T249	1	1	3	
T249-T250	0	0	2-	
T250-T251	1+	1+	2+	
T251-T252	1+	1+	2+	
T252-T253	1-	1-	2-	
T253-T254	1-	1-	3-	
T254-T255	0	0	0	
RW T255-T256	0	0	1	
RW T257-T258	1	1	2	
	-1	-1	-2	



	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company

شركة أنابيب البترول

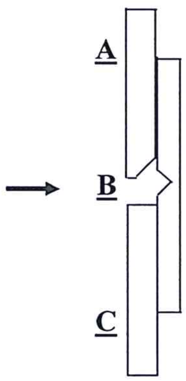
CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت

Enppi

Client : EGPC	Project No. :	
Main Contractor : PTJ/ENPPI	Report no	12
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	23/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
RW T258-T259	1+	1+	2+	
RW T259-T260	0	0	2-	
RW T260-T261	1+	1+	2+	
T261-T262	1+	1+	2+	
RW T263-T264	1-	1-	2-	
T264-T265	0	0	0	
T265-T266	1-	1-	2-	
T266-T267	1-	1-	3-	
T267-T268	0	0	1-	
T268-T269	1+	1+	2+	
T269-T270	1+	1+	3+	
T270-T271	1-	1-	2-	
T271-T272	1-	1-	2-	
T272-T273	0	0	1-	
T273-T274	2-	2-	4-	
T274-T275	1-	1-	2-	
T275-T276	1+	1+	3+	

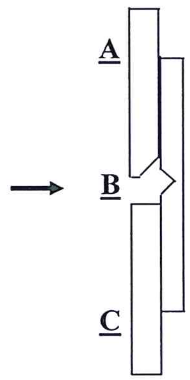


	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

Client : EGPC	Project No. :	
Main Contractor : PTJ/ENPPI	Report no	13
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	24/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T276-T277	4+	1+	2+	
T277-T278	2+	1+	1+	
T278-T279	6-	1-	3-	
T279-T280	3-	1-	1-	
T280-T281	0	0	0	
T281-T282	3-	1-	1-	
T282-T283	2-	1-	1-	
T283-T284	1-	0	0	
T284-T285	4+	1+	2+	
T285-T286	2+	1+	1+	
T286-T287	4-	1-	2-	
T287-T288	3-	1-	1-	
T288-T289	1-	0	0	
T289-T290	4-	2-	2-	
T290-T291	5-	1-	2-	
T291-T292	4+	1+	2+	
T292-T293	1+	0	0	
T293-T294	1+	1+	2+	



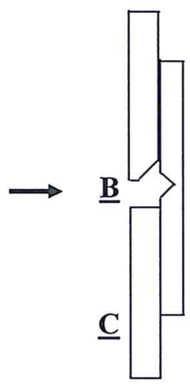
	PTJ	Enppi	PMC
Name	Ebrahim Rowa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC — Petroleum Pipelines Company شركة أنابيب البترول — PETROJET بتروجت — Enppi

Client : EGPC	Project No. :
Main Contractor : PTJ/ENPPI	Report no: 14
TANK NO.:031-T-001	
DRW no : 1251-100-116-02-XX-D01-017	DATE: 24/06/2021
Applicable Code / Specification : API 650, ADD.11	

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T294-T295	-2	-5	-5	
T295-T296	-1	-1	-2	
T296-T297	0	0	0	
T297-T298	0	0	0	
T298-T299	-1	-1	-2	
T299-T300	1	1	3	
T300-T301	-3	-3	-7	
T301-T302	1	1	2	
T302-T303	1	1	1	
T303-T304	0	0	0	
T304-T305	0	0	0	
T305-T306	1	1	1	
T306-T307	0	0	0	
T307-T308	4	0	2	
RW T308-T309	3	1	3	
RW T309-T310	1	1	1	



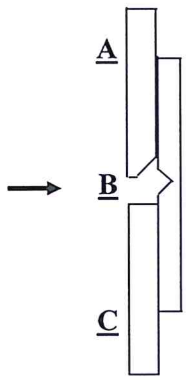
	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC	Project No. :
Main Contractor : PTJ/ENPPI	Report no 15
TANK NO.:031-T-001	
DRW no : 1251-100-116-02-XX-D01-017	DATE 24/06/2021
Applicable Code / Specification : API 650, ADD.11	

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
RW T312-T313	1+	1+	2+	
RW T313-T314	0	0	2-	
RW T314-T315	1+	1+	2+	
RW T315-T316	1+	1+	2+	
RW T316-T317	1-	1-	2-	
T317-T318	0	0	0	
T318-T319	1-	1-	2-	
T319-T320	1-	1-	3-	
T320-T321	0	0	1-	
T321-T322	1+	1+	2+	
T322-T323	1+	1+	3+	
T323-T324	1-	1-	2-	
T324-T325	1-	1-	2-	
T325-T326	0	0	1-	
T326-T327	2-	2-	4-	
T327-T328	1-	1-	2-	
T328-T329	1+	1+	3+	
T329-T330	0	0	0	



	PTJ	Enppi	PMC
Name	Ebrahim Aqusa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

Client : EGPC

Main Contractor : PTJ/ENPPI

TANK NO.:031-T-001

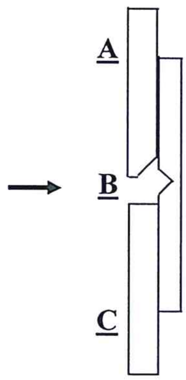
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD.11

Report no 16

DATE 24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T12-T13	-3	-3	-7	
T13-T14	1	1	2	
T14-T15	1	1	1	
T18-T19	0	0	0	



	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت Enppi

Client : EGPC

Main Contractor : PTJ/ENPPI

TANK NO.:031-T-001

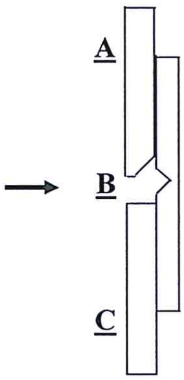
DRW no : 1251-100-116-02-XX-D01-017

Applicable Code / Specification : API 650, ADD.11

Report no 17

DATE 24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T1-T2	1+	1+	2+	
T2-T3	2	2	1	
T3-T4	0	0	2-	
T4-T5	1+	1+	2+	
T5-T6	1+	1+	2+	
T6-T7	2-	2-	4-	
T7-T8	1-	1-	2-	
T8-T9	0	0	0	
T9-T10	1	1	1	
T10-T11	0	0	0	
T11-T12	1	1	2	
T15-T16	0	0	1	
T16-T17	1	1	2	
T17-T18	3	3	6	
T18-T19	1	1	2	
T19-T20	1	1	2	
T20-T21	5	5	10	
T21-T22	1-	1-	2-	



	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company شركة أنابيب البترول

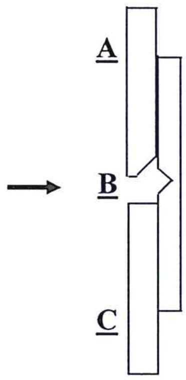
CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET بتروجت

Enppi

Client : EGPC	
Main Contractor : PTJ/ENPPI	
TANK NO.:031-T-001	Report no: 18
DRW no : 1251-100-116-02-XX-D01-017	DATE: 24/06/2021
Applicable Code / Specification : API 650, ADD.11	

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T22-T23	1-	1-	2-	
T23-T24	1-	1-	3-	
T24-T25	0	0	1-	
T25-T26	1+	1+	2+	
T26-T27	1+	1+	3+	
T27-T28	1-	1-	2-	
T28-T29	1-	1-	2-	
T29-T30	0	0	1-	
T30-T31	2-	2-	4-	
T31-T32	1-	1-	2-	
T32-T33	1+	1+	3+	
T33-T34	0	0	1+	
T34-T35	2-	2-	4-	
T35-T36	2-	2-	5-	
T36-T37	2+	2+	4+	
T37-T38	0	0	1+	
T38-T39	1+	1+	2+	
T39-T40	0	0	0	

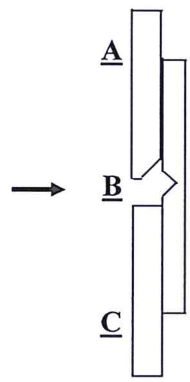


	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC / Petroleum Pipelines Company شركة أنابيب البترول	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) BANDING REPORT	PETROJET بتروجت / Enppi

Client : EGPC		
Main Contractor : PTJ/ENPPI		
TANK NO.:031-T-001	Report no	19
DRW no : 1251-100-116-02-XX-D01-017		
Applicable Code / Specification : API 650, ADD.11	DATE	24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T40-T41	4+	1+	2+	
T41-T42	2+	1+	1+	
T42-T43	6-	1-	3-	
T43-T44	3-	1-	1-	
T44-T45	0	0	0	
T45-T46	3-	1-	1-	
T46-T47	2-	1-	1-	
T47-T48	1-	0	0	
T48-T49	4+	1+	2+	
T49-T50	2+	1+	1+	
T50-T51	4-	1-	2-	
T51-T52	3-	1-	1-	
T52-T53	1-	0	0	
T53-T54	4-	2-	2-	
T54-T55	5-	1-	2-	
T55-T56	4+	1+	2+	
T56-T57	1+	0	0	
T57-T58	1+	1+	2+	



	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.	[signature]		[signature]
Date			

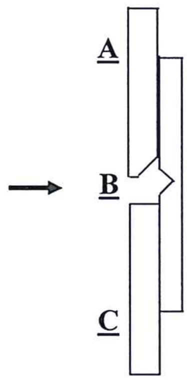
CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC
Main Contractor : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD.11

Report no	20
DATE	24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T58-T01	1+	1+	2+	
T167-T168	1-	1-	2-	
T330-T331	1-	1-	3-	
T331-T332	0	0	0	
T332-T333	1-	1-	2-	
T333-T334	1-	1-	3-	
T334-T335	0	0	1-	
T335-T336	1+	1+	2+	
T336-T337	1+	1+	2+	
T337-T338	1-	1-	2-	
T338-T339	1-	1-	3-	
T339-T340	0	1-	1-	
T340-T341	2-	2-	4-	
T341-T342	1-	1-	2-	
T342-T343	1+	1+	2+	
T343-T344	0	0	0	
T344-T345	2-	2-	4-	
T345-T346	1	1	3	



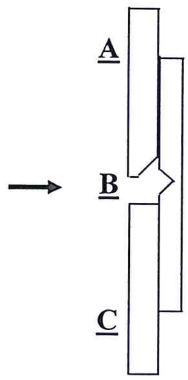
	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

Client : EGPC
Main Contractor : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD.11

Report no	21
DATE	24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
T346-T347	1+	1+	2+	
T347-T348	2	2	1	
T348-T349	0	0	2-	
T349-T350	1+	1+	2+	
T350-T351	1+	1+	2+	
T351-T352	2-	2-	4-	
T352-T353	1-	1-	2-	
T353-T354	0	0	0	
T354-T355	1	1	1	
T355-T356	0	0	0	
T356-T357	1	1	2	
T357-T358	0	0	1	
T358-T359	1	1	2	
T359-T360	3	3	6	
T360-T361	1	1	2	
T361-T362	1	1	2	
T362-T363	5	5	10	
T363-T364	1-	1-	2-	



	PTJ	Enppi	PMC
Name	Ebrahim Rousa		M.Youssef
Sign.	[signature]		[signature]
Date			

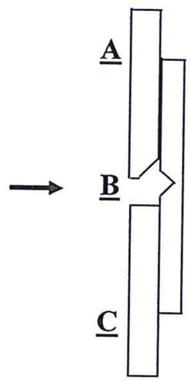
CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

EGPC | Petroleum Pipelines Company شركة أنابيب البترول | PETROJET بتروجت | Enppi

Client : EGPC
Main Contractor : PTJ/ENPPI
TANK NO.:031-T-001
DRW no : 1251-100-116-02-XX-D01-017
Applicable Code / Specification : API 650, ADD.11

Report no	22
DATE	24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
RW T364-T365	1-	1-	2-	
RW T365-T366	1+	1+	3+	
RW T366-T367	0	0	1+	
RW T368-T369	2-	2-	5-	
RW T369-T370	2+	2+	4+	
RW T370-T371	0	0	1+	
RW T371-T372	1+	1+	2+	
T372-T373	0	0	0	
T373-T374	1-	1-	2-	
T374-T375	1-	1-	3-	
T375-T376	0	0	1-	
T376-T377	1+	1+	2+	
T377-T378	1+	1+	3+	
T378-T379	1-	1-	2-	
T379-T380	1-	1-	2-	
T380-T381	0	0	1-	
T381-T382	2-	2-	4-	



	PTJ	Enppi	PMC
Name	Ebrahim Moussa		M.Youssef
Sign.	[signature]		[signature]
Date			

EGPC

Petroleum Pipelines Company
شركة أنابيب البترول

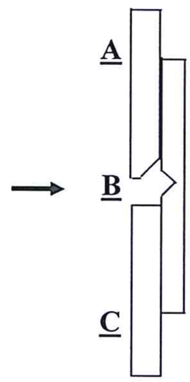
CRUDE OIL TANK FARM PROJECT(AGROOD AREA)
BANDING REPORT

PETROJET
بتروجت

Enppi

Client : EGPC		
Main Contractor : PTJ/ENPPI		
TANK NO.:031-T-001	Report no	23
DRW no : 1251-100-116-02-XX-D01-017		
Applicable Code / Specification : API 650, ADD.11	DATE	24/06/2021

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
RW T418-T419	-3	-3	-7	
RW T419-T420	1	1	2	
RW T420-T421	1	1	1	
RW T421-T422	0	0	0	
RW T422-T423	0	0	0	
RW T423-T424	1	1	1	
RW T424-T425	0	0	0	
RW T425-T426	1+	1+	2+	

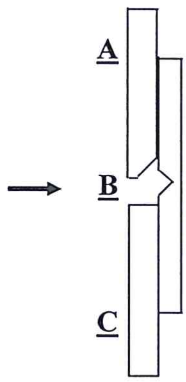


	PTJ	Enppi	PMC
Name	Ebrahim Moussa		M.Youssef
Sign.	[signature]		[signature]
Date			

	CRUDE OIL TANK FARM PROJECT(AGROOD AREA) BANDING REPORT	
EGPC / Petroleum Pipelines Company شركة أنابيب البترول		PETROJET بتروجت / Enppi

Client : EGPC		
Main Contractor : PTJ/ENPPI	Report no	24
TANK NO.:031-T-001		
DRW no : 1251-100-116-02-XX-D01-017	DATE	24/06/2021
Applicable Code / Specification : API 650, ADD.11		

JOINT NO.	MEASUREMENT			REMARKS
	A(mm)	B(mm)	C(mm)	
RW T256-T256A	1-	1-	2-	
RW T256A-T2567	1+	1+	3+	
RW T310-T310A	0	0	1+	
RW T310A-T310B	2-	2-	4-	
RW T310B-T312	2-	2-	5-	
RW T367-T367A	2+	2+	4+	
RW T367A-T368	0	0	1+	
RW T262-T262A	2-	2-	4-	
RW T262A-T263	2-	2-	5-	

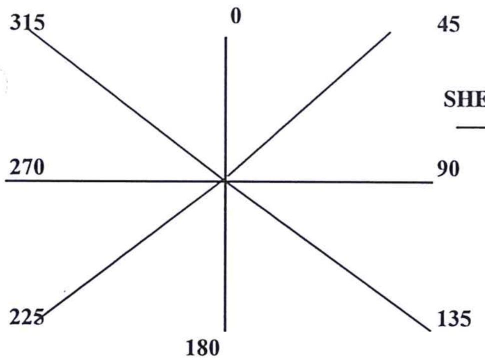


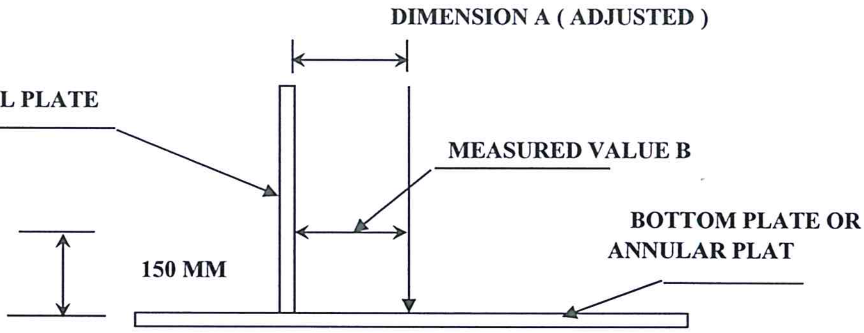
	PTJ	Enppi	PMC
Name	Ebrahim Mousa		M.Youssef
Sign.			
Date			

18. PLUMBNESS CHECK REPORTS

EGPC	TANK SHELL FIT UP INSPECTION COURSE (PLUMBNESS)	PETROJET Enppi

CLIENT	EGPC	REPORT NO.	1
PROJECT NAME	CRUDE OIL TANK FARM PROJECT	DATE.	24/06/2021
TANK NO.	031-TK-001		
TANK DIAMETER	110 m	COURSE NO.	9 ST
SPECS. OR CODE	API650		





INSPECTION DATE			INSPECTOR	PTJ. QC	
TOLERANCE	±12 mm		RESULT	ACC	
DEG.	***B***	***A - B***	***DEG.***	***B***	***A - B***
0	55	5	***180***	56	6
45	54	4	***225***	48	-2
90	51	1	***270***	53	3
135	49	-1	***315***	52	2

NOTE :-

A-B IS THE DISTANCE BETWEEN REFERENCE POINT & ANY POINT ON THE SHELL

	PETROJET	PMC	PMC
Name :	Ebrahim Mousa		M.Youssef
Sign :	[signature]		[signature]
Date :			

SURVEY REPORT FOR TANK (031-T-01)

C6	1 2
C5	1 2
C4	1 2

1: Above Horizontal seam with 200mm

2: Below Horizontal seam with 200mm

ANGLE	RIM-SP	C2	C3-1	C3-2	C4-1	C4-2	C5-1	C5-2	C6-1	C6-2	C7-1	C7-2	C8-1	C8-2	C9-1	C9-2
0		54.933	54.945	54.955	54.935	54.9.3	54.94	54.96	54.95	54.93	54.925	54.94	54.94	54.94	54.975	54.975
5		54.935	54.945	54.94	54.93	54.93	54.92	54.93	54.94	54.945	54.94	54.925	54.93	54.96	54.95	54.9
10		54.955	54.97	54.98	54.98	54.98	54.975	54.98	54.995	55.005	55.01	54.99	54.99	54.975	54.94	54.94
15		54.997	54.988	54.995	54.995	55	54.96	54.96	54.96	54.96	55.015	55.03	55	54.97	54.97	54.97
20		55.03	55.015	55.015	55	55.005	54.995	55.005	55.03	55.03	55.035	55.015	55.015	54.997	55.01	55.01
25		54.97	55	0.01	55.01	55.025	55.01	55.005	55.005	54.995	55.01	55.02	55.03	55.015	55.03	55.05
30		55.005	54.97	54.97	54.965	54.97	54.97	54.975	55.005	55.025	55.03	55.025	55.015	55.005	55.025	55.01
35		54.965	54.95	54.95	54.925	54.915	54.94	54.95	54.955	54.955	54.98	54.969	54.98	54.975	54.995	55
40		54.965	54.945	54.935	54.93	54.935	54.935	54.955	54.95	54.95	54.965	54.96	54.945	54.9.35	54.965	54.96
45		54.995	54.95	54.94	54.95	54.96	54.945	54.95	54.965	54.98	54.975	54.96	54.975	54.97	54.97	54.955
50		54.965	54.965	54.96	54.965	54.96	54.96	54.975	54.97	54.965	55	55.005	54.98	54.97	54.98	54.995
55		54.975	54.975	54.98	54.99	54.997	54.97	54.974	55	55	55.02	55.02	54.98	54.964	54.97	54.97
60		54.99	54.97	54.97	54.96	54.96	54.965	54.98	55	55	54.99	54.99	54.95	54.945	54.925	54.927
65		54.965	54.96	54.965	54.965	54.97	54.935	54.94	54.9	54.895	54.91	54.945	54.955	54.98	54.98	54.97
70		55.015	55.015	55.02	55.01	55.015	55.005	55.01	55.018	55.025	55.015	55.015	55.01	55.01	55.03	55.025
75		55.025	55.03	55.04	55.02	54.97	55.005	55.025	55.05	55.05	55.065	55.065	55.06	55.05	55.06	55.065
80		54.99	54.995	55	55	55.005	54.995	55.005	54.99	54.985	55	55.005	54.98	54.98	55.04	55.05
85		55.005	54.98	54.97	54.99	55.005	54.995	55.005	54.95	54.94	54.94	54.995	54.985	54.975	55.005	55

ANGLE	RIM-SP	C2	C3-1	C3-2	C4-1	C4-2	C5-1	C5-2	C6-1	C6-2	C7-1	C7-2	C8-1	C8-2	C9-1	C9-2
90		54.995	54.985	54.985	54.985	55.01	55.005	55.03	54.995	54.99	55.005	55.01	55.01	55	55.01	54.995
95		54.991	54.967	54.969	54.951	54.953	54.973	55.018	55.017	55.008	55.013	55.017	55.018	55.02	55.023	55.026
100		54.966	54.97	54.962	54.944	54.951	54.961	55.018	55.036	55.037	55.048	55.041	55.041	55.034	55.029	55.04
105		54.965	54.966	54.972	54.954	54.979	54.956	54.968	54.942	54.93	54.957	54.988	55.003	55.011	55.024	55.038
110		54.976	54.961	54.959	54.98	55.002	54.986	54.991	54.994	55.003	54.988	54.963	54.958	54.946	54.965	54.975
115		54.968	54.941	54.936	54.926	54.932	54.93	54.951	54.961	54.962	54.934	54.929	54.924	54.935	54.936	54.941
120		54.978	54.94	54.93	54.908	54.911	54.908	54.934	54.936	54.932	54.94	54.927	54.93	54.95	54.957	54.981
125		54.99	54.952	54.946	54.938	54.945	54.934	54.955	54.966	54.972	54.963	54.946	54.936	54.921	54.981	54.995
130		54.962	54.956	54.962	54.964	54.975	54.959	54.974	54.977	54.977	54.977	54.945	54.961	54.982	54.991	55.016
135		54.988	54.973	54.978	54.999	55.017	54.998	55.006	55.009	55.012	54.996	54.982	54.966	54.948	54.976	54.987
140		55.031	54.985	54.978	54.972	54.988	54.991	55.01	55.01	54.998	54.991	54.971	54.958	54.953	54.956	54.958
145		54.995	54.944	54.943	54.923	54.936	54.935	54.959	54.928	54.891	54.927	54.938	54.936	54.915	54.929	54.945
150		54.912	54.946	54.933	54.914	54.921	54.916	54.946	54.929	54.932	54.945	54.954	54.926	54.915	54.923	54.912
155		54.98	54.95	54.955	54.972	54.986	54.991	55.004	54.995	54.994	54.983	54.968	54.933	54.964	54.984	54.994
160		54.981	54.983	54.992	55.007	55.012	55.01	55.031	55.016	55.003	55.008	55.005	54.974	54.956	55.006	55.068
165		55.027	54.98	54.968	54.992	55.005	54.966	55.007	54.979	54.98	55.027	55.055	55.075	55.1	55.102	55.116
170		54.957	54.938	54.928	54.923	54.954	54.947	54.981	54.988	55	55.046	55.062	55.025	55.031	55.102	55.114
175		54.936	54.917	54.916	54.917	54.932	54.915	54.916	54.915	54.912	54.96	54.957	54.876	54.887	54.924	54.89

ANGLE	RIM-SP	C2	C3-1	C3-2	C4-1	C4-2	C5-1	C5-2	C6-1	C6-2	C7-1	C7-2	C8-1	C8-2	C9-1	C9-2
180		54.941	54.922	54.907	54.904	54.913	54.898	54.924	54.896	54.86	54.883	54.87	54.75	54.72	54.688	54.71
185		54.915	54.9	54.908	54.894	54.897	54.877	54.89	54.832	54.809	54.797	54.79	54.777	54.784	54.807	54.785
190		54.96	54.94	54.93	54.935	54.941	54.918	54.914	54.898	54.885	54.896	54.897	54.9	54.89	54.915	54.93
195		54.984	54.977	54.98	54.98	54.995	55.003	55.023	55.027	55.023	55.046	55.045	55.016	55.005	55.017	55.03
200		54.958	54.982	55.003	55.007	55.02	55.02	55.045	55.05	55.06	55.073	55.066	55.01	55.004	55.062	55.085
205		54.95	54.94	54.95	54.94	54.94	54.956	54.95	54.992	55.027	55.015	55.015	55.027	55.025	55.02	55.042
210		54.893	54.874	54.864	54.875	54.936	54.907	54.944	54.938	54.93	54.97	54.97	54.98	54.976	54.965	55.007
215		54.97	54.925	54.91	54.905	54.92	54.925	54.95	54.94	54.935	54.943	54.98	54.946	54.94	54.932	54.96
220		55.02	55.007	54.998	54.976	54.973	54.97	54.985	54.98	54.977	54.97	54.924	54.98	54.91	54.85	54.915
225		54.978	54.985	55.012	55.008	55.008	54.992	54.987	54.985	54.983	54.975	54.978	54.945	54.885	54.851	54.795
230		54.995	54.977	54.967	54.939	54.938	54.925	54.938	54.913	54.898	54.892	54.894	54.904	54.896	54.861	54.835
235		54.993	54.982	54.96	54.94	54.905	54.877	54.895	54.89	54.861	54.872	54.865	54.835	54.855	54.851	54.898
240		54.933	54.905	54.855	54.846	54.855	54.861	54.891	54.893	54.883	54.899	54.884	54.855	54.83	54.808	54.874
245		54.95	54.939	54.956	54.943	54.951	54.934	54.94	54.887	54.865	54.86	54.859	54.857	54.833	54.85	54.839
250		54.933	54.927	54.936	54.885	54.88	54.925	54.896	54.876	54.886	54.901	54.891	54.982	54.891	54.886	54.91
255		54.994	54.985	54.982	54.952	55.008	54.985	55.016	54.982	54.987	54.975	54.975	54.941	54.997	54.916	54.908
260		55.027	55.011	55.021	54.986	54.959	54.95	54.974	54.95	54.92	54.912	54.897	54.85	54.848	54.895	54.877
265		55.002	54.986	54.986	54.954	54.931	54.903	54.909	54.858	54.809	54.812	54.866	54.864	54.883	54.861	54.858

ANGLE	RIM-SP	C2	C3-1	C3-2	C4-1	C4-2	C5-1	C5-2	C6-1	C6-2	C7-1	C7-2	C8-1	C8-2	C9-1	C9-2
270		54.998	54.954	54.947	54.941	54.972	54.965	54.99	54.959	54.915	54.946	54.976	54.971	55.016	55.022	55.045
275		54.981	54.978	54.978	54.977	54.986	54.996	54.976	54.982	54.974	55.005	55.028	55.015	55.038	55.043	55.036
280		54.876	54.532	55.044	55.064	55.085	55.062	55.026	55.024	55.17	55.006	54.955	54.874	54.968	54.876	55.016
285		54.951	54.994	55	54.982	54.988	54.98	55.009	54.974	54.932	54.985	54.954	54.932	54.931	54.918	54.908
290		54.951	54.948	54.95	54.916	54.911	54.884	54.891	54.873	54.844	54.875	54.887	54.873	54.861	54.83	54.819
295		54.93	54.892	54.887	54.883	54.892	54.884	54.887	54.9	54.89	54.894	54.843	54.87	54.852	54.82	54.855
300		54.921	54.897	54.892	54.857	54.86	54.881	54.877	54.866	54.89	54.885	54.837	54.828	54.831	54.834	54.864
305		54.931	54.943	54.947	54.904	54.89	54.875	54.889	54.87	54.847	54.914	54.935	54.922	54.894	54.89	54.915
310		54.969	54.966	54.97	54.851	54.952	54.943	54.962	54.985	54.998	55.009	55.008	54.916	54.915	54.936	54.936
315		55.002	54.985	54.988	54.985	54.989	54.983	55.99	54.984	55.083	55.047	55.056	55.002	55.014	54.992	54.989
320		54.977	54.989	55.018	55.019	55.034	55.004	55	54.99	54.989	55.007	55.01	54.983	54.994	54.996	54.986
325		54.93	54.93	54.96	54.93	54.925	54.92	54.925	54.99	54.989	55.007	55.01	54.983	54.994	54.996	54.986
330		54.9	54.89	54.9	54.895	54.9	54.89	54.89	54.85	54.86	54.825	54.82	54.85	54.87	54.86	54.92
335		54.97	54.96	54.96	54.945	54.95	54.91	54.92	54.97	54.84	54.9	54.92	54.905	54.94	54.92	54.94
340		54.98	54.97	54.98	54.965	54.97	54.995	55.015	55.02	55.02	55.01	55.006	55.007	55.01	55.018	55.005
345		54.965	54.97	54.98	54.97	54.97	54.985	55	54.995	54.985	54.995	55	55.005	55.01	55.03	55.03
350		54.95	54.965	54.985	54.985	54.99	55	55.008	55.004	54.995	55.015	54.995	55.02	55.035	55.035	55.03
355		55	54.99	54.99	54.99	55.01	55.015	55.015	55.018	55	55	54.985	55.018	55.005	55.01	55.02

PETROJET

SURVEY REPORT

EGPC NEW CRUDE OIL TANKS FARM AGRROOD

Enppi

Petroleum Pipelines Company
شركة أنابيب البترول

RFI No :

Location : 31-tk1

Module 2

Date : 25/6/2021

Report No. :

Structure : veticaity report of 12 " radar guge pole N9 & 2" temperature transmitter N13

1- Coordinates

NO	Coordinates (Drawing)			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
N9	0.00	0.00		0.009	0.005			
N13	0.00	0.00		0.002	0.008			

2-Elevation

NO.	As Per DWG	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
1									
2									
3									
4									

COMMENT

PETROJET			ENPPI	P.P.C
Surveyor	Construction	QA/QC		
Signature	Signature	Signature	Signature	Signature

PETROJET

SURVEY REPORT

EGPC NEW CRUDE OIL TANKS FARM AGRROOD

Enppi

Petroleum Pipelines Company

شركة أنابيب البترول

RFI No :

Location : 31-tk1

Module 2

Date : 25/6/2021

Report No. :

Structure : veticaity report of 16" /8" guide pole N6 & 6" guide wave level transmitter N18

1- Coordinates

NO	Coordinates (Drawing)			Coordinates (Actual)				
	Easting	Northing		Easting	Northing	Diff- E	Diff - N	Tolerance
N6	0.00	0.00		0.004	0.010			
N18	0.00	0.00		0.007	0.009			

2-Elevation

NO.	As Per DWG	Actual	Diff	Tolerance	NO.	As Per DWG	Actual	Diff	Tolerance
1									
2									
3									
4									

COMMENT

PETROJET			ENPPI	P.P.C
Surveyor	Construction	QA/QC		
Signature	Signature	Signature	Signature	Signature

19. NOZZLES ORIENTATION REPORTS

20. MATERIAL CERTIFICATES

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%) C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	Mechanical Properties YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
51	133515-01	512969	7.087	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
52	133515-02	512969	7.087	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
53	133515-03	512969	7.063	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
54	133515-04	512969	4.735	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
55	133516-01	512969	7.082	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
56	133516-02	512969	5.507	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
57	133516-03	512969	7.072	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
58	133516-04	512969	6.290	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
59	133518-01	512969	7.064	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
60	133518-02	512969	7.054	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

described herein complies with and has been tested and inspected in accordance to the above specification.

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%) C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	Mechanical Properties YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
61	133518-03	512969	7.054	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
62	133518-04	512969	4.713	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
63	133519-01	512969	7.098	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
64	133519-02	512969	7.098	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
65	133519-03	512969	7.077	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
66	133519-04	512969	4.745	5	4	80	7	1	4	6	7	3	42	49	7	364	464	31	77	75	74	75
67	133520-01	512970	7.082	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
68	133520-02	512970	7.082	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
69	133520-03	512970	7.072	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
70	133520-04	512970	4.735	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

described herein complies with and has been tested and inspected in accordance to the above specification.

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%) C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	Mechanical Properties YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
71	133521-01	512970	7.080	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
72	133521-02	512970	7.080	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
73	133521-03	512970	7.090	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
74	133521-04	512970	4.730	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
75	133522-01	512970	6.293	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
76	133522-02	512970	6.286	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
77	133522-03	512970	6.286	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
78	133522-04	512970	7.082	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
79	133523-03	512970	6.288	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
80	133523-04	512970	7.084	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

described herein complies with and has been tested and inspected in accordance to the above specification.

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
81	133525-01	512970	6.303	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
82	133525-02	512970	6.294	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
83	133525-03	512970	6.294	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
84	133525-04	512970	7.096	6	4	82	7	2	4	6	7	3	44	48	10	363	473	29	60	61	65	62
85	133528-01	512971	6.294	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
86	133528-02	512971	6.294	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
87	133528-03	512971	6.304	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
88	133528-04	512971	7.096	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
89	133529-01	512971	6.290	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
90	133529-02	512971	6.297	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67

Chemical Composition (%) covers C through Mo; Mechanical Properties covers YP through Impact Test.

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

described herein complies with and has been tested and inspected in accordance to the above specification.

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الاسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%) C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	Mechanical Properties YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
91	133529-03	512971	6.286	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
92	133529-04	512971	7.082	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
93	133530-01	512971	6.287	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
94	133530-02	512971	6.287	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
95	133530-03	512971	7.078	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
96	133530-04	512971	6.292	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
97	133531-01	512971	6.298	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
98	133531-02	512971	6.294	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
99	133531-03	512971	6.294	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67
100	133531-04	512971	7.091	6	4	81	7	2	3	5	7	3	34	52	7	351	471	30	66	68	67	67

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	YP N/mm2	TS N/mm2	EL %	Impact Test Joule T= oC W= 3.30 mm VALUES			AVG.
101	133532-01	512972	6.281	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
102	133532-02	512972	6.286	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
103	133532-03	512972	6.286	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
104	133532-04	512972	7.072	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
105	133533-01	512972	6.297	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
106	133533-02	512972	6.287	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
107	133533-03	512972	6.287	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
108	133533-04	512972	7.078	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
109	133534-01	512972	6.304	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
110	133534-02	512972	6.299	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

Transport and inspection date 2020/02/25
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الاسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 1600 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053280
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 02
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%) C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	Mechanical Properties YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
111	133534-03	512972	6.299	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
112	133534-04	512972	7.086	6	4	80	7	2	2	4	5	3	37	50	5	356	467	29	70	71	78	73
113	134628-01	513088	7.098	5	3	79	7	1	4	4	8	2	31	52	10	357	475	29	48	48	48	48
114	134628-02	513088	7.098	5	3	79	7	1	4	4	8	2	31	52	10	357	475	29	48	48	48	48
115	134628-03	513088	7.087	5	3	79	7	1	4	4	8	2	31	52	10	357	475	29	48	48	48	48
116	134628-04	513088	4.745	5	3	79	7	1	4	4	8	2	31	52	10	357	475	29	48	48	48	48

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width
Total net weight : 758.500 M Tons
Total gross weight : 758.500 M Tons
Transport and inspection date : 2020/02/25
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الاسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 6.00 mm MIN
Width : 1600 mm
Length : 9425 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053281
Issuance Date : FEB.26,2020
Contract / Line No. : L19120100 05
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 5.00 mm VALUES			AVG.
1	124071-03	511954	5.379	5	2	78	7	4	2	3	4	2	51	50	2	314	444	33	60	58	47	55
2	124072-01	511954	6.423	5	2	78	7	4	2	3	4	2	51	50	2	314	444	33	60	58	47	55
3	124072-02	511954	6.418	5	2	78	7	4	2	3	4	2	51	50	2	314	444	33	60	58	47	55
4	124072-03	511954	5.800	5	2	78	7	4	2	3	4	2	51	50	2	314	444	33	60	58	47	55

(Chemical Composition (%): C through Mo; Mechanical Properties: YP through Impact Test)

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width
Total net weight : 24.020 M Tons
Total gross weight : 24.020 M Tons
Transport and inspection date : 2020/02/25
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الاسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer : PETROLEUM PROJECT (PETROJET)
Commodity : HOT ROLLED STEEL SHEETS
Thickness : 5.00 mm MIN
Width : 920 mm
Length : 12150 mm
Specification : A283M GRADE C ASTM A 283M-18

Certificate No. : 053265
Issuance Date : FEB.25,2020
Contract / Line No. : L19120100 07
Delivery order No. :

SN.	Bundle No	Heat No.	Net Weight (Tons)	C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
1	133169-02	512926	5.495	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
2	133170-01	512926	5.459	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
3	133170-02	512926	5.459	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
4	133172-01	512926	5.448	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
5	133173-01	512926	5.448	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
6	133173-02	512926	5.443	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
7	133174-01	512926	5.448	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
8	133174-02	512926	5.448	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
9	133175-01	512926	5.453	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45
10	133175-02	512926	5.459	6	2	79	8	3	2	4	6	3	34	62	3	343	454	31	43	47	47	45

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width
Total net weight : 54.560 M Tons
Total gross weight : 54.560 M Tons
Transport and inspection date : 2020/02/24
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

AL EZZ DEKHEILA STEEL COMPANY - ALEXANDRIA (S.A.E)

MILL TEST CERTIFICATE

Customer	: PETROLEUM PROJECT (PETROJET)	Certificate No.	: 053247
Commodity	: HOT ROLLED STEEL SHEETS	Issuance Date	: FEB.24,2020
Thickness	: 5.00 mm MIN	Contract / Line No.	: L19120100 02
Width	: 1600 mm	Delivery order No.	:
Length	: 12150 mm		
Specification	: A283M GRADE C ASTM A 283M-18		

SN.	Bundle No	Heat No.	Net Weight (Tons)	Chemical Composition (%)												Mechanical Properties						
				C * 100	Si * 100	Mn * 100	P * 1000	S * 1000	Cr * 100	Ni * 100	Cu * 100	V * 1000	Al tot* 1000	N ppm	Mo * 1000	YP N/mm2	TS N/mm2	EL %	IMPACT TEST Joule T= oC W= 3.30 mm VALUES			AVG.
1	133205-01	512931	7.065	5	4	79	8	2	2	4	4	3	33	53	3	352	462	29	58	61	59	59
2	133205-02	512931	7.064	5	4	79	8	2	2	4	4	3	33	53	3	352	462	29	58	61	59	59
3	133205-03	512931	7.064	5	4	79	8	2	2	4	4	3	33	53	3	352	462	29	58	61	59	59
4	133211-01	512932	7.063	5	3	79	7	2	2	4	5	2	33	57	4	350	469	27	45	52	63	53
5	133211-02	512932	7.065	5	3	79	7	2	2	4	5	2	33	57	4	350	469	27	45	52	63	53
6	133211-03	512932	7.065	5	3	79	7	2	2	4	5	2	33	57	4	350	469	27	45	52	63	53
7	133211-04	512932	5.512	5	3	79	7	2	2	4	5	2	33	57	4	350	469	27	45	52	63	53
8	133462-02	512961	7.064	6	3	77	8	3	2	3	4	2	38	54	6	350	471	27	70	77	74	73
9	133462-03	512961	7.064	6	3	77	8	3	2	3	4	2	38	54	6	350	471	27	70	77	74	73
10	133462-04	512961	3.948	6	3	77	8	3	2	3	4	2	38	54	6	350	471	27	70	77	74	73

1 Applied Standard test method according to produced specification 2 Uncertainty value are available up on request
3 Name of test lab (Flat) 4 T = impact test temperature , W = impact sample width

Transport and inspection date 2020/02/23
This certificate is according to EN 10204 3.1

described herein complies with and has been tested and inspected in accordance to the above specification.

Al Ezz Dekheila Steel Co. - Alex. (S.A.E)
EZDK
شركة العز الدخيلة للصلب - الإسكندرية (ش.م.م)
QUALITY DEPARTMENT
إدارة الجودة

Quality Control Section Manager

ORIGINAL

검 사 증 명 서
MILL TEST CERTIFICATE

HYUNDAI STEEL
당진제철소 : 충남 당진시 송악읍 북부산업로 1480
1480 Bukbusanup-Ro, Songak-Eup, Dangjin-Si, Chungnam, Korea

주문번호 Order No. : F200100056

품 명 Commodity : HOT ROLLED STEEL PLATES

제품규격 Specification : ASTM A283-C

고객사 Customer : PETROJET

주문자 Contractor : DB INC.

증명서 번호 Certificate No. : 20200306-PS-008-002

발행일자 Date of Issue : 2020-03-06

단위 Unit 2 : x100 3 : x1,000 4 : x10,000 5 : x100,000

제품치수 Dimension	수량 Quantity	중량 Weight (Kg)	제강번호 Heat No.	제품번호 Product No.	Position	인장시험 Tensile Test							U.S.T	충격시험 Impact Test V Notch +0.0 ℃			화학성분 Chemical Composition(%)														
						YP	TS	EL	YP-EL	RA	YR	YP Mtd		Energy	SF	LE	Division	C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N	Nb	Ti	V	Sol-Al	CEQ
						(N/㎟)		(%)	(%)	(%)	(%)			(Joule)	(%)	(㎜)		4	3	3	4	4	2	2	3	2	4	3	3	3	3	3
10x2400x12800	1	2,412	R41819	FB71619402	T	280.0	446.0	31				2	1	1: 74			L	1,618	176	508	109	40	2	1	14	0	45	1	2	0	28	252
														2: 73			P	1,628	179	497	99	37	2	1	16	0		1	2	0	30	251
														3: 79																		
														A: 76																		
10x2400x12800	1	2,412	R41819	FB71619403	T	280.0	446.0	31				2	1	1: 74			L	1,618	176	508	109	40	2	1	14	0	45	1	2	0	28	252
														2: 73			P	1,628	179	497	99	37	2	1	16	0		1	2	0	30	251
														3: 79																		
														A: 76																		
10x2400x12800	1	2,412	R41821	FB71619501	T	268.8	436.7	32				2	1	1: 80			L	1,541	191	511	127	46	2	1	13	0	29	1	2	0	27	245
														2: 89			P	1,553	196	504	119	48	3	1	15	0		1	2	0	28	247
														3: 78																		
														A: 82																		
10x2400x12800	1	2,412	R41821	FB71619502	T	268.8	436.7	32				2	1	1: 80			L	1,541	191	511	127	46	2	1	13	0	29	1	2	0	27	245
														2: 89			P	1,553	196	504	119	48	3	1	15	0		1	2	0	28	247
														3: 78																		
														A: 82																		

NOTE
- Position – T:Top, M:Middle, B:Bottom
- Tensile test – Direction:Transverse, Gauge length:200mm (Rectangular), YP Mtd : 2 (0.2% off-set),5 (0.5% underload), U (Upper yield point), L (Lower yield point)
- U.S.T – Ultrasonic test, 1:Acceptable
- Impact test – Direction:Transverse, Sub-size:10mmX7.5mm, SF:Shear fracture, LE:Lateral Expansion
- Division – P:Product analysis, L:Ladle analysis

- The plate is fully killed and fine grained steel. Basic oxygen process and Vacuum degassing process were applied. • This Mill Test Certificate is issued in accordance with EN 10204 Type 3.1

상기의 제품은 검사의 결과 지정된 규격에 합격한 것을 증명합니다.
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS

Signature S. B. Park
Chief Of Quality Assurance Team

ORIGINAL

검 사 증 명 서
MILL TEST CERTIFICATE

HYUNDAI STEEL

당진제철소 : 충남 당진시 송악읍 북부산업로 1480
1480 Bukbusanup-Ro, Songak-Eup, Dangjin-Si, Chungnam, Korea

주문번호 Order No. : F200100056

품 명 Commodity : HOT ROLLED STEEL PLATES

제품규격 Specification : ASTM A283-C

고객사 Customer : PETROJET

주문자 Contractor : DB INC.

증명서 번호 Certificate No. : 20200306-PS-007-009

발행일자 Date of Issue : 2020-03-06

단위 Unit 2:x100 3:x1,000 4:x10,000 5:x100,000

제품치수 Dimension	수량 Quantity	중량 Weight (Kg)	제강번호 Heat No.	제품번호 Product No.	Position	인장시험 Tensile Test YP (N/㎟)	TS (N/㎟)	EL (%)	YP-EL (%)	RA (%)	YR (%)	YP Mtd	U.S.T	충격시험 Impact Test V Notch +0.0 ℃ Energy (Joule)	SF (%)	LE (㎜)	Division	화학성분 Chemical Composition(%) C (4)	Si (3)	Mn (3)	P (4)	S (4)	Cr (2)	Ni (2)	Cu (3)	Mo (2)	N (4)	Nb (3)	Ti (3)	V (3)	Sol-Al (3)	CEQ (3)
11.1 x 2400 x 12801	1	2,677	R42522	FB72017801	T	271.2	438.2	30				2	1	1: 70			L	1,674	201	498	106	56	3	1	32	0	37	1	2	0	33	259
														2: 69			P	1,718	201	482	95	52	2	1	30	0		1	2	0	33	259
														3: 75																		
														A: 71																		
11.1 x 2400 x 12801	1	2,677	R42522	FB72017802	T	271.2	438.2	30				2	1	1: 70			L	1,674	201	498	106	56	3	1	32	0	37	1	2	0	33	259
														2: 69			P	1,718	201	482	95	52	2	1	30	0		1	2	0	33	259
														3: 75																		
														A: 71																		
11.1 x 2400 x 12801	1	2,677	R42522	FB72017803	T	271.2	438.2	30				2	1	1: 70			L	1,674	201	498	106	56	3	1	32	0	37	1	2	0	33	259
														2: 69			P	1,718	201	482	95	52	2	1	30	0		1	2	0	33	259
														3: 75																		
														A: 71																		
11.1 x 2400 x 12801	1	2,677	R42522	FB72017901	T	271.2	438.2	30				2	1	1: 70			L	1,674	201	498	106	56	3	1	32	0	37	1	2	0	33	259
														2: 69			P	1,718	201	482	95	52	2	1	30	0		1	2	0	33	259
														3: 75																		
														A: 71																		

NOTE

* Position – T:Top, M:Middle, B:Bottom
* Tensile test – Direction:Transverse, Gauge length:200mm (Rectangular), YP Mtd : 2 (0.2% off-set),5 (0.5% underload), U (Upper yield point), L (Lower yield point)
* U.S.T – Ultrasonic test, 1:Acceptable
* Impact test – Direction:Transverse, Sub-size:10mmX7.5mm, SF:Shear fracture, LE:Lateral Expansion
* Division – P:Product analysis, L:Ladle analysis

* The plate is fully killed and fine grained steel. Basic oxygen process and Vacuum degassing process were applied.* This Mill Test Certificate is issued in accordance with EN 10204 Type 3.1

상기의 제품은 검사의 결과 지정된 규격에 합격한 것을 증명합니다.
WE HEREBY CERTIFY THAT THE MATERIAL HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND THE REQUIREMENTS

Signature: S. B. Park
Chief Of Quality Assurance Team

MARCEGAGLIA PLATES

Marcegaglia
46040 via Bresciani 16 Gazoldo degli Ippoliti Mantova Italy
Tel. +39 - 0376 685 1 Fax +39 - 0376 685 600
www.marcegaglia.com
Stab. di S.Giorgio di Nogaro
via Enrico Fermi 33, 33058 S. Giorgio di Nogaro Udine

Type/Tipo: 3.1 CERTIFICATO DI COLLAUDO EN10204 — THIS DOCUMENT WAS PRODUCED AUTOMATICALLY AND IS VALID WITHOUT SIGNATURE — Number/Numero: 16020132437 — Creato il: 20/02/2020

Product: Hot Rolled Heavy Plates
NormaCollaudoLamieraTreno: ASTM-A537
Steel grade:: CLASS 1

Customer/Cliente	Code: 0000046741	Consignee/Destinatario Merci	Delivery/N° Consegna	8560802850	Quality Control/Controllo Qualità	Pages/Pagine
KIMETAL S.R.L. PIAZZA CRIMEA 7 10131 TORINO IT		Port of Alexandria Alexandria EG	Of/Del	20/02/2020	Q.M.D./RESP. M.Quargnali	1/8
			Delivery note nr/N° doc. di trasp.	1060002208	Plant Of/Stab. S. Giorgio di Nogaro	

Material/Codice Materiale: **LTS**
Description/Descrizione: **LTS 2400,0X12801,0X 12,40 CLASS 1**

Surface Quality: EN10163-2 CL B3
Flatness: rif EN 10029 cl. N (STANDARD)
Thickness tolerance:

Delivery Condition: Normalizzato in Forno
Steel Making Process: BO= Basic oxigen

Order Nr/ordine: **1191151382/10**
Part Number:
Client Order/Ordine cliente: **AZE21219 - LOT 1**
Client Date/data cliente: **20/12/2019**

Item	Batch/N° Partita	Heat/Colata	Quantity/Q.tà KG	Quantity/Q.tà PZZ
1	20EP004147	1000801	2991	1
2	20EP004127	1000796	2991	1
3	20EP004145	1000801	2991	1
4	20EP004146	1000801	2991	1

Remarks/Note:
Material acc. to ASTM A537 Ed.2019 Class 1
Chemical composition: acc. to ASTM A537 Table 1 (+ note B)
Mechanical tests and Bend test acc. to ASTM A370 - 19e1, PETROJET tech. Specification
Fully Killed Steel - Fine Grain Steel - Heat treatment: temperature 910 +/- 10°C, soaking time: 30 min/inch, cooling in still air
Repair by welding not allowed
Thickness Tolerance: acc. to ASTM A20 (underthickness not allowed)

Batch/N° Partita	C (%)	Mn (%)	Si (%)	S (%)	P (%)	Cr (%)	Ni (%)	Cu (%)	Al (%)	Mo (%)	V (%)	Ti (%)	N (%)	Ceq (%)
		0.7	0.15											
	0.24	1.5	0.5	0.035	0.035	0.25	0.25	0.35		0.08				0.42
20EP004147	.150	1.440	.190	.0090	.0080	.030	.020	.020	.034	.0050	.005	.0050	.0080	.40
20EP004127	.140	1.450	.210	.0070	.0100	.030	.020	.030	.042	.0050	.005	.0050	.0060	.39
20EP004145	.150	1.440	.190	.0090	.0080	.030	.020	.020	.034	.0050	.005	.0050	.0080	.40
20EP004146	.150	1.440	.190	.0090	.0080	.030	.020	.020	.034	.0050	.005	.0050	.0080	.40

Kimetal Order 1963/630
Your Ref. A3-019120
Item No. 1 (140.12)
Quality control

Batch/N° Partita	Forma	(1)	(2)	(3)	Tst [°C]	Rm [N/mmq]	Rp 0.2 [N/mmq]	E 2in (%)	(1b	(2b	(3b	T [°C]	Kv1 [J]	Kv2 [J]	Kv3 [J]	Kvª [J]	TESTN
					20	485	345	22					50	50	50		
					20	620											
20EP004147	P	1	P	T	20	510	378	42.0	1	P	T	0	121	123	128	124	20-3313N
20EP004127	P	1	P	T	20	520	400	42.0	1	P	T	0	150	149	156	151	20-3292N
20EP004145	P	1	P	T	20	524	401	42.0	1	P	T	0	126	128	129	127	20-3317N
20EP004146	P	1	P	T	20	502	368	41.0	1	P	T	0	139	132	133	134	20-3315N

Controllo ad ultrasuoni

Apparecchiatura	Numero di serie	Condizioni di superficie	Accoppiante	Mod. operative	Taratura
Gilardoni RDG/700	1001288	As Rolled	Acqua	Secondo le specifiche	Secondo le specifiche

Item	Norma di riferimento	Classe accettabilità	Esito	Indicazioni	Reticolo	Bordi	Sonda	Frequenza	Angolo
1	ASTM A435	ASTM A435	Ok	Not founded	100x100 mm	100	DP 25/4	2 1/4 MHz	0°
2	ASTM A435	ASTM A435	Ok	Not founded	100x100 mm	100	DP 25/4	2 1/4 MHz	0°
3	ASTM A435	ASTM A435	Ok	Not founded	100x100 mm	100	DP 25/4	2 1/4 MHz	0°
4	ASTM A435	ASTM A435	Ok	Not founded	100x100 mm	100	DP 25/4	2 1/4 MHz	0°

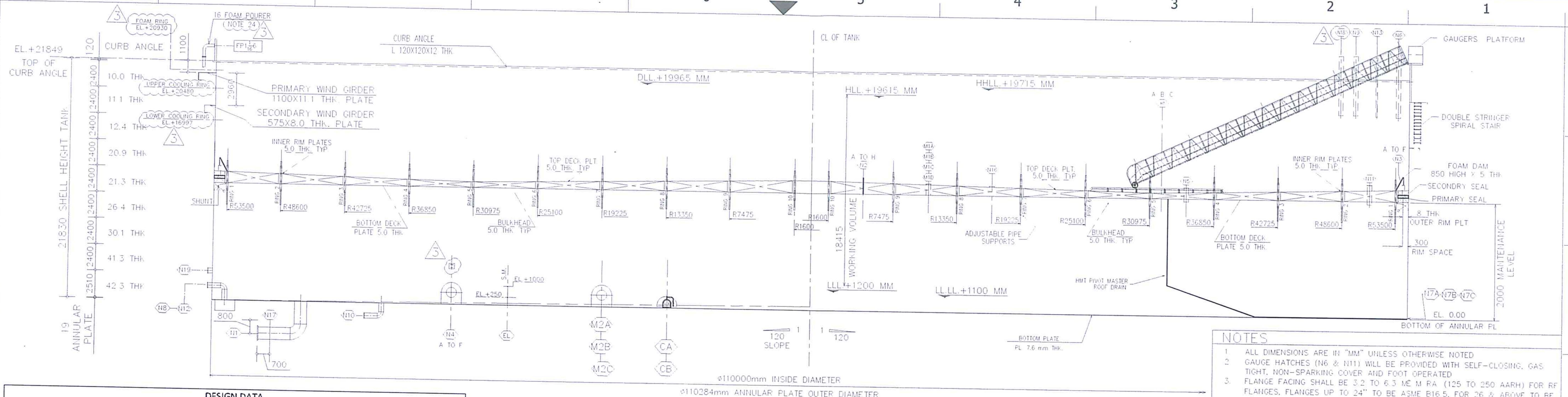
Firma
III Liv. EN/ISO 9712
Q.M.D. M.Quargnali

(1)Posizione 1=Testa 2=Piede (2)Direzione 1/2=1/2 spessore ... (3)Direzione L=Longitudinale T=Trasversale

Descrizione Marchi

- Material Free of radioactive contamination
- Dimensional check and visual examination of the surface condition: without objection
- We Declare that the above mentioned plates are in compliance with the order prescription

21. DRAWING



GENERAL ARRANGEMENT FOR CRUDE OIL STORAGE TANKS

DESIGN DATA		
DESIGN CODE		API 650 11 EDITION. ADD 3
QTY. / ITEM NO.		NOTE 17
LIQUID HEIGHT		19965 MM
NOMINAL CAPACITY		207457 M3
WORKING CAPACITY		175000 M3
DESIGN LIQUID LEVEL		19965 MM
DESIGN PRESSURE		ATM (m bar g)
DESIGN TEMPERATURE		80 °C
DESIGN SPECIFIC GRAVITY / TEST SPECIFIC GRAVITY		0.95/ 1.035 (SEA WATER)
CORROSION ALLOWANCE	SHELL	0 mm
	BOTTOM & ANNULAR	0 mm
	FLOATING ROOF	0 mm
	NOZZLE & MANHOLE	0 MM
FLOATING ROOF TYPE		DOUBLE DECK
FOUNDATION TYPE		CONCRETE RING BEAM
TESTING		AS PER CODE /SPECIFICATION
MAX. FILLNG FLOWRATE (DESIGN)		16.500 m3/hr
FILLNG FLOWRATE (NORMAL)		15.000 m3/hr
MAX.DRAW - OFF FLOWRATE (DESIGN)		13.800 m3/hr
OUTFLOW (NORMAL)		12.000 m3/hr
OPERATING PRESSURE		ATM (m bar g)
BLANKETING PRESSURE		- (m bar g)
OPERATING TEMPERATURE		AMBIENT
LIQUID SPECIFIC GRAVITY AT 15° C		0.70 / 0.95
CATEGORY OF PRODUCT		CRUDE OIL
EMPTY WEIGHT (TON)		3,239
WEIGHT WITH PRODUCT (TO HHLL) (TON)		181,229
WEIGHT HYDROTEST (TO HHLL) (TON)		190,597
SEISMIC DESIGN		YES
DESIGN CODE		ASCE 7-10
DESIGN CRITERIA		API650 APPENDIX E
SITE CLASS		D
SEISMIC USE GROUP/IMP. FACTOR		GROUP I / 1.0
Short period acceleration (Ss)		1
1-SEC period acceleration (S1)		0.4
VERTICAL EARTHQUAKE ACCELERATION (Av)		0
WIND DESIGN		YES
DESIGN CODE		ASCE-07-05
WIND SPEED		160 Km/h
EXPOSURE FACTOR		D
IMPORTANCE FACTOR		1
INTERNAL DIAMETER		110000 mm
HEIGHT		21830 mm
ANCHOR BOLTS		NO
CLEAN OUT DOORS		YES
ROOF LIVE LOAD		1 Kpa

NOZZLE SCHEDULE								
SHELL NOZZLES								
MARK	SIZE	QTY	RATING	TYPE	SCH.	SERVICE	ELEVATION	OUTSTAND
N1	52"	1	150#	W.N.R.F	19 TBC	INLET & OUTLET	-2200	57550
N4A/F	30"	6	150#	W.N.R.F	XS	MIXER	789	300
N7A/C	4"	3	150#	S.O.R.F	XS	ROOF RAIN DRAIN	219	55250
N8	2"	1	150#	S.O.R.F	XS	SAMPLE CONNECTION	369	55250
N10	12"	1	150#	S.O.R.F	XS	WATER DRAIN OFF	-650	55700
N12	12"	1	150#	S.O.R.F	XS	BOTTOM DRAW OFF SUMP	369	55400
N17	2"	1	150#	S.O.R.F	XS	RV INLET	See Detail DWG.	
M2A/C	36"	3	AP1650		30.1 THK	MANHOLE C/W DAVIT ARM	1069	55300
CA/B	36X48'	2	AP1650		45 THK	CLEAN OUT DOOR	-	-
EL	-	12	-		-	EARTHING LUG	269	-
N19	2"	1	150#	S.O.R.F	XS	Pressure Transmitters (future)	819	55250
ROOF NOZZLES								
MARK	SIZE	QTY	RATING	TYPE	SCH.	SERVICE	RADIUS	
N2A-H	12"	8	STD	-	40	AUTOMATIC BEEDER VENT	32300	
N3A-F	6"	6	150#	S.O.R.F.	40	RIM VENT	54400	
N5 A/J	6"	10	STD	-	80	EMERGENCY DRAIN	32300	
N6	16"/8"	1	150#	W.N.R.F	XS	GAUGE HATCH / GUIDE POLE	53925	
N7A	4"	1	STD	-	40	ROOF DRAIN SUMP	31950	
N7B	4"	1	STD	-	40	ROOF DRAIN SUMP	31950	
N7C	4"	1	STD	-	40	ROOF DRAIN SUMP	31950	
N9	12"	1	150#	S.O.R.F.	XS	12" stillingwell for tank gauging Radar/ Level Transmitter shall be included.	53925	
N11	8"	1	150#	S.O.R.F.	40	MANUAL CAUGE	53750	
N13	2"	1	150#	S.O.R.F.	XS	2" stillingwell for MULTI-SPOT temperature transmitter shall be included.	53525	
N16	24"	105	AP1650		5 THK	PONTOON MANHOLE C/W COVER	VARIES	
N18	6"	1	300#	S.O.R.F.	XS	STILLING WELL FOR GAUIDED WAVE LEVEL TRANSMITTER	53525	
M1A	36"	1	AP1650		7.6 THK	MANHOLE	5200	
M1B	36"	1	AP1650		7.6 THK	MANHOLE	5200	
M1C	36"	1	AP1650		7.6 THK	MANHOLE	5200	
M1D	36"	1	AP1650		7.6 THK	MANHOLE	5200	
FP (1~16)	2"	16	2" HOLE IN WINDSHIELD PL.			FOAM POURER	NOTE 24	

NOTES

20. FOAM DAM IS PROVIDED FOR THE PURPOSE OF RETAINING PROTECTION ASSOCIATION, NFPA NO.11, APP. A. FOAM DAM DESIGN REQUIREMENTS ARE ACCORDING TO API-650 PARAGRAPH C.3.16.2
21. EXTERNAL CATHODIC PROTECTION IS INCLUDED IN PETROJET SCOPE OF WORK (ENGINEERING, PROCUREMENT AND CONSTRUCTION) INCLUDING 4 CATHODIC PROTECTION LUGS
22. ALL NOZZLES ELEVATION MEASURED FROM TOP OF CONCRETE.
23. THE MIXER MOUNTING NOZZLE FLANGE IS 30" WN 150# RF ASME B16.47 SERIES "A".
24. FOR DETAILS OF WATER SPRAY AND FOAM SYSTEM REFER TO DWGs. NO 1251-100-116-02-XX-D99-018, 1251-100-116-02-XX-D99-019 & 1251-100-116-02-XX-D99-020.

LOADING DATA

1	TOTAL WT OF TANK (EMPTY) (N)	32273449
2	TOTAL WT OF TANK (OPER.) (N)	1805768725
3	TOTAL WT. OF TANK (TEST) (N)	1899111631
4	SEISMIC SHEAR ON BASE (N)	81718914
5	SEISMIC MOMENT ON RING BEAM (N.m)	606270991
6	SEISMIC MOMENT ON SLAB (N.m)	3521358194
7	WIND SHEAR (N)	1970574
8	WIND MOMENT (N.m)	21508821

NOTES

1. ALL DIMENSIONS ARE IN "MM" UNLESS OTHERWISE NOTED
2. GAUGE HATCHES (N6 & N11) WILL BE PROVIDED WITH SELF-CLOSING, GAS TIGHT, NON-SPARKING COVER AND FOOT OPERATED
3. FLANGE FACING SHALL BE 3.2 TO 6.3 ME M RA (125 TO 250 AARH) FOR RF FLANGES. FLANGES UP TO 24" TO BE ASME B16.5, FOR 26 & ABOVE TO BE ASME B16.47 SERIES "A" UNLESS OTHERWISE SPECIFIED.
4. ANY REMOVABLE INTERNALS SHALL PASS THROUGH MANHOLE INNER DIAMETER.
5. SPARE PARTS FOR COMMISSIONING AND START UP SHALL BE:
   - 5.1 THREE COMPLETE SET OF GASKETS FOR MANHOLES, BLIND CONNECTIONS.
   - 5.2 10% OF BOLTING (MIN. 5 PIECES OF EACH SIZE/ TYPE) FOR MANHOLES, BLIND CONNECTIONS AND INTERNALS.
6. FLANGE BOLT HOLES SHALL BE STRADDLE THE MAIN AXIS OF THE TANK. THREADING OF EXTERNAL BOLTING SHALL CONFORM TO UNC ANSI B1.1
7. CLEAN OUT DOORS SHALL BE FLUSH TYPE WITH FACILITATING OPEN DEVICE (RAILING DEVICE), BLIND COVER, BOLTING AND GASKET
8. MANHOLE SHALL BE PROVIDED WITH BLIND COVER, BOLTING, GASKET AND DAVIT
9. SULPHUR CONTENT OF CRUDE IS 0 – 5 WT %
10. THE MATERIAL OF ANNULAR PLATE AND (1ST TO 5TH) SHELL COURSES ARE ASTM A537 CL.2 WITH TENSILE STRENGTH: MIN. 585 MPA 690 MPA. THE MATERIAL OF (6TH &7TH) COURSES ARE ASTM A537 CL.1; THE MATERIAL OF OTHER COURSES ARE A283 GR. C.
11. ROOF RAIN DRAIN SHALL BE USING ARTICULATED STEEL PIPE USING "PIVOT MASTER" (OR EQUIVALENT) FLEXIBLE JOINTS., QUANTITY AND SIZE TO BE CONFIRMED BY TANK SUPPLIER.
12. ALL LIQUID LEVELS ELEVATION ARE MEASURED FROM TANK BOTTOM TO THE LEVEL OF THE UNDERSIDE OF THE FLOATING ROOF (LOWER DECK).
13. NOZZLE SHALL BE SUPPLIED WITH COMPLETE STILLING WELL.
14. LIGHTNING PROTECTION FOR FLOATING ROOF SHALL BE ACCORDING TO API 545.
15. TANKS SHALL BE EARTHED WITH THROUGH 12 JUMPERS.
16. WELDING AND NON-DESTRUCTIVE EXAMINATION SHALL BE AS PER PROJECT SPECIFICATION & CODES
17. THE TANK LOCATION, TAG NUMBER AND OYT. SHALL BE:
   - 17.1. RAS SHUKIER 010-T-01/02/03/04/05 (QTY. FIVE TANKS).
   - 17.2. RAS BADRAN MODULE 1 020-T-01/02/03 (QTY. THREE TANKS).
   - 17.3. RAS BADRAN MODULE 2 021-T-01/02/03/04 (QTY. FOUR TANKS).
   - 17.4. RAS BADRAN MODULE 3 022-T-01/02/03/04/05 (QTY. FIVE TANKS).
   - 17.5. AGROOD MODULE 1 030-T-01/02/03/04 (QTY. FOUR TANKS).
   - 17.6. AGROOD MODULE 2 031-T-01/02 (QTY. TWO TANKS).
   - 17.7. RAS GHARIB 070-T-01/02/03/04/05/06 (QTY. SIX TANKS).
18. INSULATION KIT' SHALL BE PROVIDED TO INSULATE BODIES OF ALL MIXERS FROM SHELL OF TANK. THIS IS MANDATORY FOR INSULATING GROUNDING SYSTEM & CATHODIC PROTECTION SYSTEM "SPECIFICATION AND SUPPLY BY OTHERS.
19. EACH TANK SHALL BE COMPLETE WITH MIN. OF 12 RETRACTABLE EARTHING SYSTEM (SUPPLIED BY OTHERS) DISTRIBUTED EVENLY ALONG TANK UPPER CIRCUMFERENCE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	10/09/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	10/02/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	15/10/2019	ISSUED FOR CONSTRUCTION	EL.Z.	M.H.	H.A.
0	27/08/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

GENERAL ARRANGEMENT FOR CRUDE OIL STORAGE TANK

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-B01-001	1 OF 2	3

ITEM	LIST	DESCRIPTION
	TANK DOCUMENTS	
1	Tank Foundation Loads	1251-100-116-02-XX-C99-002
2	Mechanical Design Calculations	1251-100-116-02-XX-C01-001
3	Floating Roof Design Calculations	1251-100-116-02-XX-C99-003
4	Automatic Bleeder Vent Design Calculations	1251-100-116-02-XX-C99-004
5	Nozzles Loads Calculation	1251-100-116-02-XX-C01-002
	TANK DRAWINGS	
6	General Arrangement	1251-100-116-02-XX-B01-001
7	Double Deck Floating Roof Layout	1251-100-116-02-XX-D99-001
8	Double Deck Floating Roof Details	1251-100-116-02-XX-D99-002
9	Floating Roof Support Legs Details	1251-100-116-02-XX-D99-003
10	Top & Bottom Deck Plates Arrangement	1251-100-116-02-XX-D99-004
11	Top & Bottom Deck Plates Cutting Details	1251-100-116-02-XX-D99-005
12	Bottom Plate Arrangement	1251-100-116-02-XX-D01-001
13	Bottom Plate Cutting Details	1251-100-116-02-XX-D01-002
14	Arrangement of Cleanout Door	1251-100-116-02-XX-D01-003
15	Details of Cleanout Door	1251-100-116-02-XX-D01-004
16	Details of Cleanout Door Davit	1251-100-116-02-XX-D01-005
17	Details of Shell Plates	1251-100-116-02-XX-D01-006
18	Primary Wind Girder Arrangement	1251-100-116-02-XX-D01-007
19	Primary Wind Girder Details	1251-100-116-02-XX-D01-008
20	Secondary Wind Girder Arrangement	1251-100-116-02-XX-D01-009
21	Secondary Wind Girder Details	1251-100-116-02-XX-D01-010
22	Primary Wind Girder Handrail Details	1251-100-116-02-XX-D01-011
23	Arrgmt. of 52" Inlet/Outlet Ref. N1 & N17 for Tanks	1251-100-116-02-XX-D01-012
24	Details of 52" Inlet/Outlet Ref. N1 & N17 for Tanks	1251-100-116-02-XX-D01-013
25	Arrgmt. of 12" Bot. Draw-off N10 for Tanks	1251-100-116-02-XX-D01-014
26	Det. of 12" Bot. Draw-off N10 for Tanks	1251-100-116-02-XX-D01-015
27	Details of 12" Bot. Draw-off Nozzle & Sump Ref. N12	1251-100-116-02-XX-D01-016
28	Shell Development for Tanks	1251-100-116-02-XX-D01-017
29	Details of Earthing Lugs	1251-100-116-02-XX-D01-018
30	Details of Shell Fittings	1251-100-116-02-XX-D01-019
31	Details of Shell Manhole (M2A/C) Davit Arm	1251-100-116-02-XX-D01-020
32	Mixer Support Details	1251-100-116-02-XX-D01-021
33	Details of 16" NP Guide Pole c/w 8" NP Gauge hatch Ref. N6 & 6"NP Level tran. Ref. N18	1251-100-116-02-XX-D01-022
34	Details of 12" Automatic Bleeder Vents	1251-100-116-02-XX-D01-023
35	Foam Dam Details	1251-100-116-02-XX-D01-024
36	Details of Pontoon Recess at Mixer Nozzle	1251-100-116-02-XX-D01-025
37	Details of Roof Fittings	1251-100-116-02-XX-D01-026
38	Details of Roof Manholes (M1A/C)	1251-100-116-02-XX-D01-027
39	DELETED	
40	Details of Roof Drain Sump	1251-100-116-02-XX-D01-029

ITEM NO.	LIST	DESCRIPTION
	TANK DRAWINGS	
41	Arrangement of Spiral Stair for Tanks	1251-100-116-02-XX-D01-030
42	Details of Spiral Stair for Tanks	1251-100-116-02-XX-D01-031
43	Details of Gaugers Platform Access Stair	1251-100-116-02-XX-D01-032
44	Rolling Ladder Arrangement	1251-100-116-02-XX-D99-006
45	Rolling Ladder Details	1251-100-116-02-XX-D99-007
46	Rolling Ladder Treads Arrangement	1251-100-116-02-XX-D99-008
47	Rolling Ladder Treads Details	1251-100-116-02-XX-D99-009
48	Rolling Ladder Runway	1251-100-116-02-XX-D99-010
49	Rolling Ladder Earthing Connection & Details	1251-100-116-02-XX-D99-011
50	Layout & Details of Gaugers Platform	1251-100-116-02-XX-D01-033
51	Details of Gaugers Platform	1251-100-116-02-XX-D01-034
52	Bottom & Shell Orientation	1251-100-116-02-XX-B01-002
53	Roof Orientation	1251-100-116-02-XX-B01-003
54	Rolling Ladder Fire Shield Details	1251-100-116-02-XX-D99-012
55	Details of Name Plates	1251-100-116-02-XX-D01-037
56	Det. Of 12" Radar Gauge Pole Ref. N9 & 2" T.T. Ref. N13	1251-100-116-02-XX-D01-038
57	Det. Of 2" Sample Conn. Int. Pipework Ref. N8	1251-100-116-02-XX-D01-039
	VENDOR PRINT	
57	Floating roof Seal Vendor Print	01251-100-116-02-XX-K99-004
58	Floating roof Seal and drain technical specification	1251-100-116-02-XX-K99-002
	External cathodic	
59	External Cathodic Protection Design Calculation Report & Spec.	01251-100-116-02-XX-C99-012
60	External Cathodic Protection system drawing	1251-100-116-02-XX-D99-022
61	External Cathodic Protection Permanent Reference Electrode Installation	1251-100-116-02-XX-D99-023
62	External Cathodic Protection Schematic Layout	1251-100-116-02-XX-D99-024
	Firefighting	
63	Firewater & Fire foam Systems Hydraulic Calculation	1251-100-116-02-XX-C99-001
64	Water Spray Nozzles Data Sheet	1251-100-116-02-XX-K09-001
65	Foam Pourer Data Sheet	1251-100-116-02-XX-K09-002
66	Water Spray/Foam System Support Details	1251-100-116-02-XX-D99-018
67	Water Spray/Foam System Support Arrangement/Details	1251-100-116-02-XX-D99-017
68	Cooling Rings Detail	1251-100-116-02-XX-D99-019
69	Foam Ring Detail	1251-100-116-02-XX-D99-020
70	Water Spray/Foam System Piping Isometric Drawings	1251-100-116-02-XX-D99-021
71	Rim vent and gauge hatch specification for Crude Oil Storage Tank	1251-100-116-02-XX-K99-001
72	Surface preparation, Painting & Coating Procedure	1251-100-116-02-XX-P05-001

Surface preparation, internal & external painting, as below table:

Items	Paint System Minimum Requirements
• Interior tank bottom. • Interior shell up to be 1.5m in height. • Lower ends of floating roof supports.	Two or more coats of solvent free epoxy reinforced with one layer of glass mat 450 g/m2 for a total dry film thickness of 1.5 - 1.8 mm. One prime coat of zinc rich epoxy primer solid contents not less than 50% by volume to dry film thickness of 60 microns. Total Zinc in D.F.T 80% by weight.
• Upper side of floating roof deck including all manholes. • Rolling ladder track, leg supports, all other apparatuses. • Upper 1.5 m of shell interior and top angle & external shell first course. • Exterior shell, stair ways, gauges platform wind girders stiffeners etc...	two coats two packs two component of high solids epoxy polyamide grey, solid contents not less than 82% by volume to a nominal dry interior and top angle & film thickness 150 microns Two coat two packs of white polyurethane gloss, solid contents not less than 50% by volume for a dry film thickness of 80 microns (2 x 40 micron) and black for rolling ladder & first course.
Under side of floating roof and interior tank apparatuses up to 1 meter in height.	One coat two pack of high build epoxy coal tar coating solids contents not less than 70% by volume to nominal dry film thickness of 200 microns.
Internal side of roof compartments.	Not applicable
Underneath of tank bottom plates	One prime coat of zinc rich epoxy primer solid contents not less than 50% by volume to dry film thickness of 60 microns. Total Zinc in O.F.T 80% by weight. Two-pack epoxy coal tar or equivalent contents not less than 70% by volume with dry film thickness 200 microns.
Tack weld, gaps	All tack weld gaps shall be interfilled with two pack solvent free epoxy filler.

HOLD LIST

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP – TYPICAL
DET – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

MATERIAL SPECIFICATION

DESCRIPTION		MATERIAL
1ST TO 5 TH SHELL COURSE		ASTM A537 CL. 2 (SEE NOTE 10)
6TH AND 7TH SHELL COURSE		ASTM A537 CL. 1 (SEE NOTE 10)
8TH AND 9TH SHELL COURSE		ASTM A 283 Gr. C
ROOF PLATES		ASTM A 283 Gr. C
BOTTOM PLATES		ASTM A 283 Gr. C
BOTTOM ANNULAR PLATES		ASTM A 537 CL.2
NOZZLE NECK		ASTM A 106 Gr. B
FLANGE		ASTM A 105
SHELL MANHOLE	NECK & FLANGE	ASTM A 537 CL. 2
	COVER	ASTM A 537 CL. 2
ROOF MANHOLE NECK,FLANGE & COVER		ASTM A 283 Gr. C
REINF .PLATE FOR SHELL OPENING		ASTM A 537 CL.2
REINF .PLATE FOR ROOF OPENING		ASTM A 283 Gr. C
INTERNAL PIPINGS		ASTM A106 Gr. B
AIR FOAM & WATER SPRAY PIPINGS		HOT DIP GALV.D CARBON STEEL
STRUCTURE		ST. 44
ROOF SUPPORTS		ASTM A 106 Gr. B
EXTERAL GUSSETS		ASTM A 283 Gr. C
BOLT & NUT	EXTERNAL FLANGE	BOLT : ASTM A 193 B7
		NUT : ASTM A 194 2H
	ALL INTERNALS	BOLT : ASTM A 193 B7
		NUT : ASTM A 194 2H
	EXTERNAL STRUCTURAL	BOLT : ASTM A 194 B7
		NUT : ASTM A 194 2H
MANHOLE GASKET		NON ASBESTOS CNAF

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	10/09/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	10/02/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	15/10/2019	ISSUED FOR CONSTRUCTION	EL.Z.	M.H.	H.A.
0	27/08/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

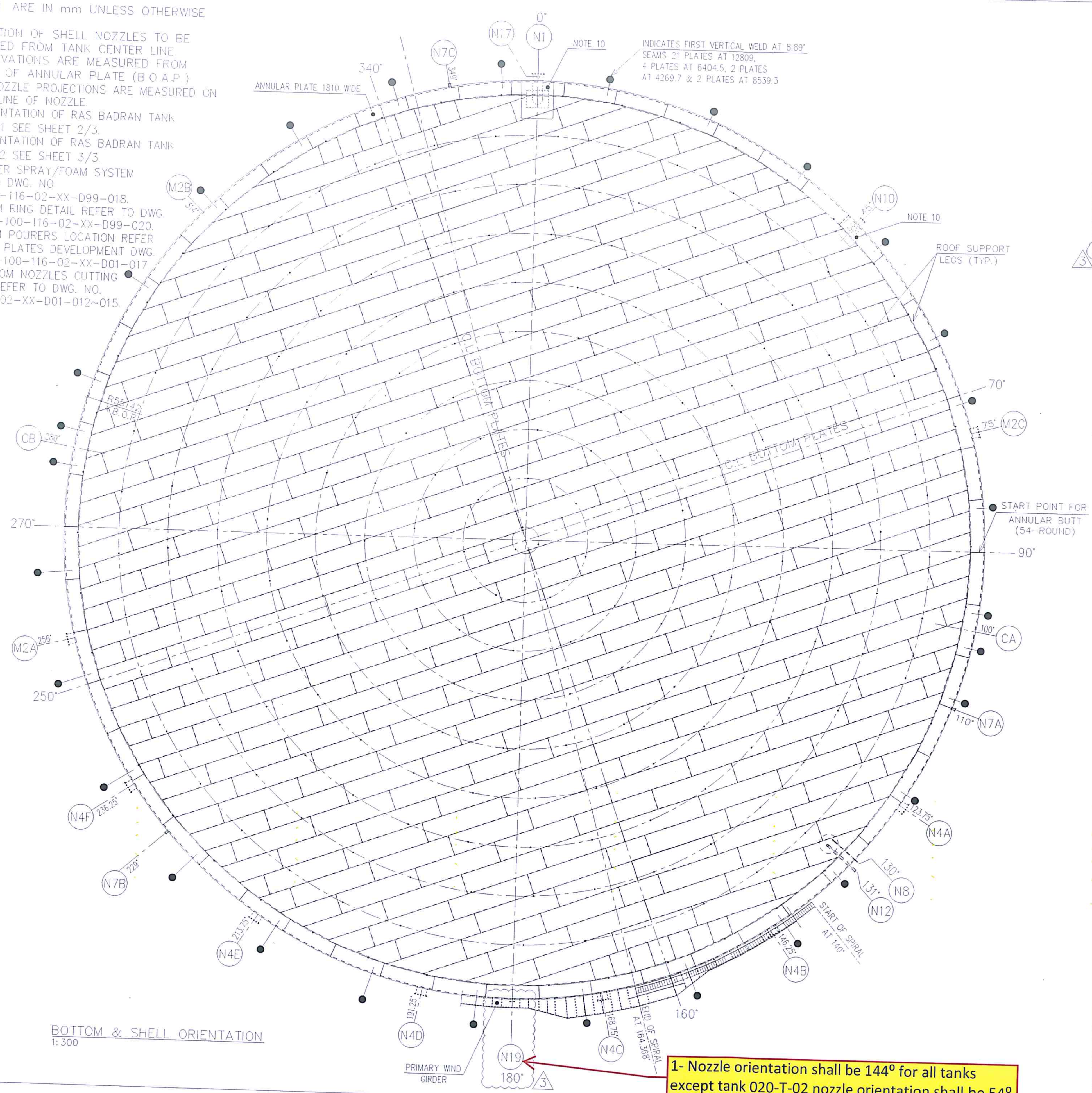
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

GENERAL ARRANGEMENT FOR CRUDE OIL STORAGE TANK

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-B01-001 | SHEET No. 2 OF 2 | REVISION 3

GENERAL NOTES: –

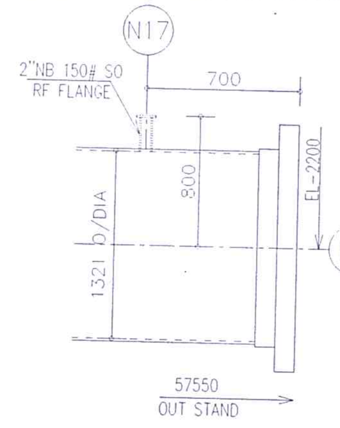
1. ALL DIM ARE IN mm UNLESS OTHERWISE NOTED
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.)
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR ORIENTATION OF RAS BADRAN TANK 020-T-01 SEE SHEET 2/3.
6. FOR ORIENTATION OF RAS BADRAN TANK 020-T-02 SEE SHEET 3/3.
7. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO 1251-100-116-02-XX-D99-018.
8. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020.
9. FOR FOAM POURERS LOCATION REFER TO SHELL PLATES DEVELOPMENT DWG. NO. 1251-100-116-02-XX-D01-017
10. FOR BOTTOM NOZZLES CUTTING DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-012~015.



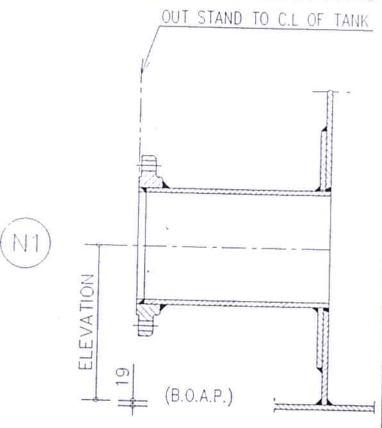
BOTTOM & SHELL ORIENTATION
1:300

1- Nozzle orientation shall be 144° for all tanks except tank 020-T-02 nozzle orientation shall be 54°

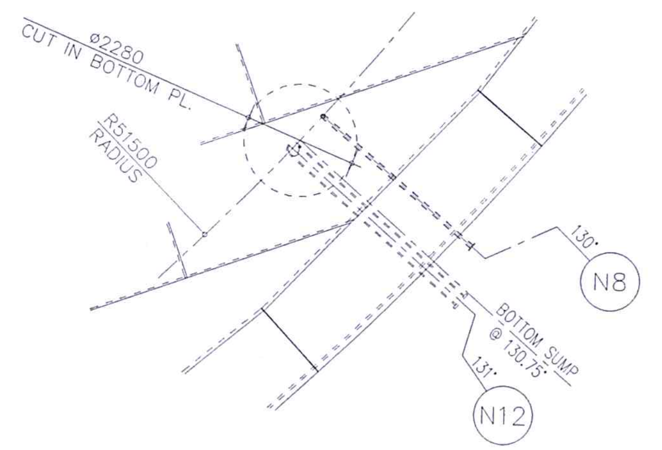
BOTTOM & SHELL FITTING							
NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52''	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30''	150# RF	789	55300	MIXER	123.75°
N4B	1	30''	150# RF	789	55300	MIXER	146.25°
N4C	1	30''	150# RF	789	55300	MIXER	168.75°
N4D	1	30''	150# RF	789	55300	MIXER	191.25°
N4E	1	30''	150# RF	789	55300	MIXER	213.75°
N4F	1	30''	150# RF	789	55300	MIXER	236.25°
N7A	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2''	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12''	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12''	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2''	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36''	API 650	1069	55300	MANWAY	256°
M2B	1	36''	API 650	1069	55300	MANWAY	314°
M2C	1	36''	API 650	1069	55300	MANWAY	75°
CA	1	36x48''	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48''	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	180°



DETAIL OF NOZZLE N17



TYPICAL SHELL NOZZLE DETAILS



ORIENTATION AT BOTTOM SUMP

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

Crude Oil Storage Tanks
TANK I.D. 010-T-01/02/03/04/05, 020-T-03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06
Bottom & shell Orientation

DIMS. IN mm
FORMAT: A2

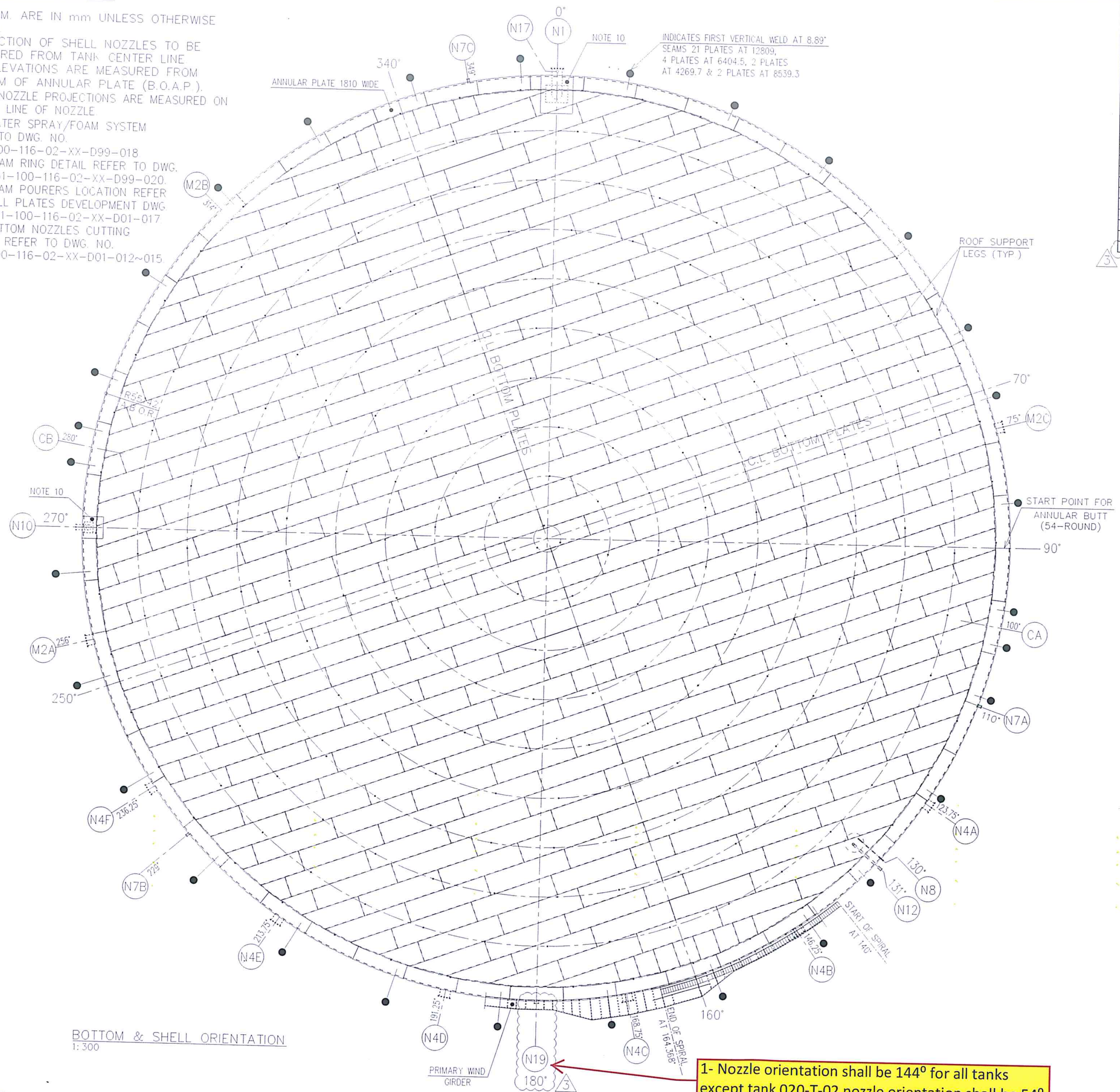
DRAWING NO.: 1251-100-116-02-XX-B01-002

SHEET No. 1 / 3

REVISION 3

GENERAL NOTES: –

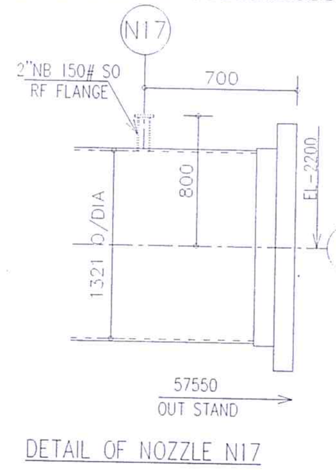
1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.).
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO. 1251-100-116-02-XX-D99-018.
6. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020.
7. FOR FOAM POURERS LOCATION REFER TO SHELL PLATES DEVELOPMENT DWG NO. 1251-100-116-02-XX-D01-017.
8. FOR BOTTOM NOZZLES CUTTING DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-012~015.



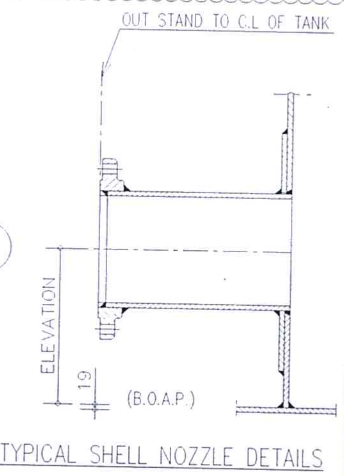
BOTTOM & SHELL ORIENTATION
1:300

1- Nozzle orientation shall be 144° for all tanks except tank 020-T-02 nozzle orientation shall be 54°

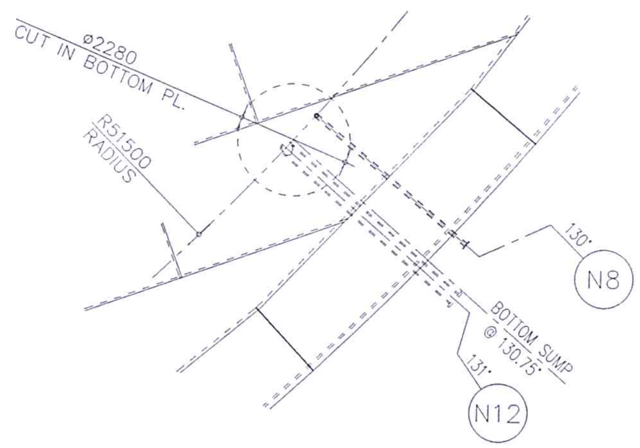
BOTTOM & SHELL FITTING							
NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52"	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30"	150# RF	789	55300	MIXER	123.75°
N4B	1	30"	150# RF	789	55300	MIXER	146.25°
N4C	1	30"	150# RF	789	55300	MIXER	168.75°
N4D	1	30"	150# RF	789	55300	MIXER	191.25°
N4E	1	30"	150# RF	789	55300	MIXER	213.75°
N4F	1	30"	150# RF	789	55300	MIXER	236.25°
N7A	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2"	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12"	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12"	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2"	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36"	API 650	1069	55300	MANWAY	256°
M2B	1	36"	API 650	1069	55300	MANWAY	314°
M2C	1	36"	API 650	1069	55300	MANWAY	75°
CA	1	36x48"	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48"	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	180°



DETAIL OF NOZZLE N17



TYPICAL SHELL NOZZLE DETAILS



ORIENTATION AT BOTTOM SUMP

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD. 1
CLIENT: EGPC

Crude Oil Storage Tanks

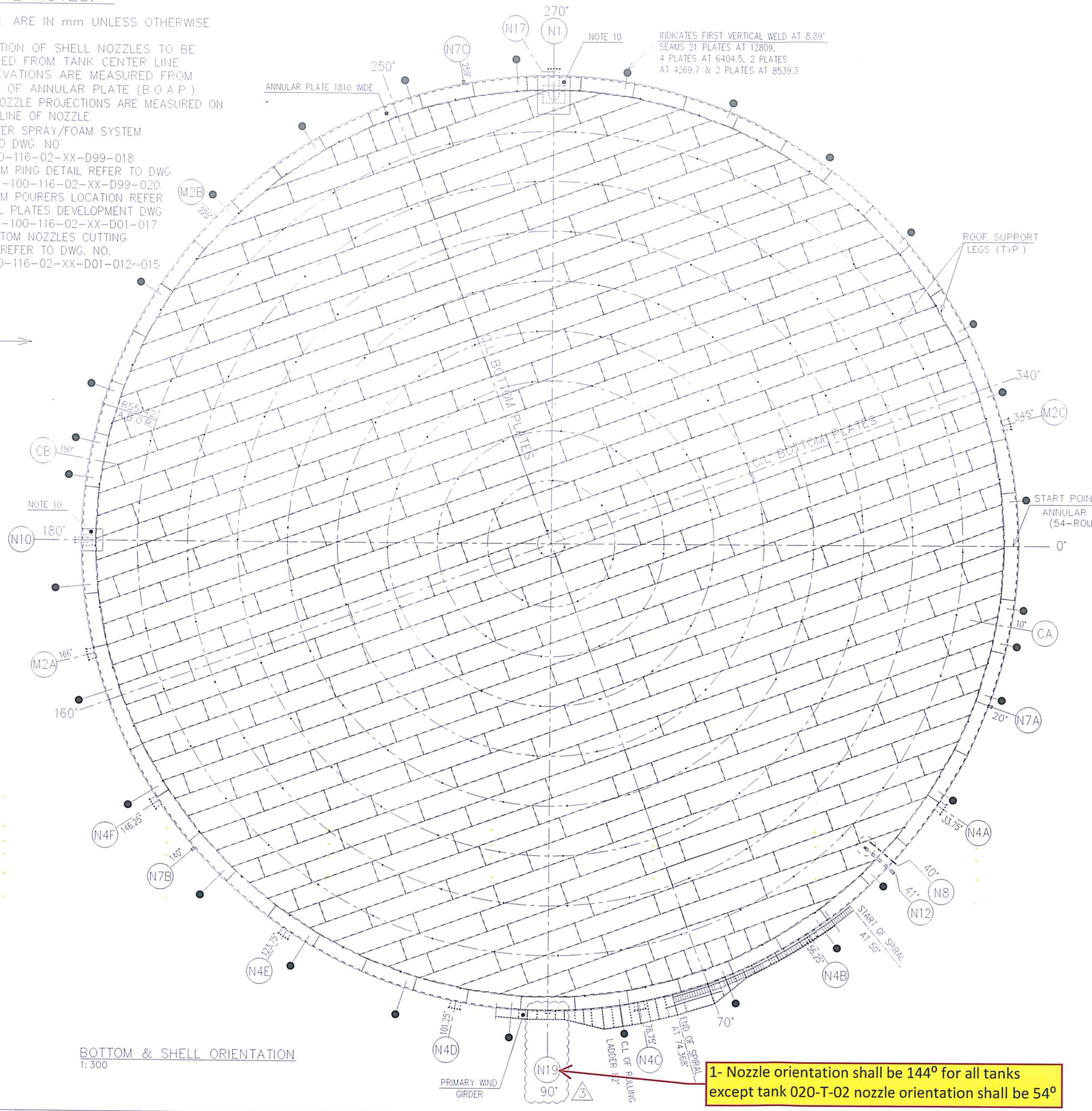
TANK I.D. 020-T-01

Bottom & shell Orientation

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-B01-002	2 / 3	3

GENERAL NOTES:-

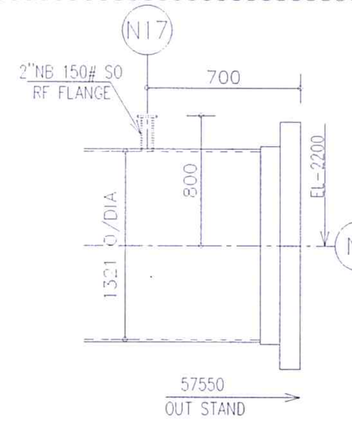
1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.)
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO 1251-100-116-02-XX-D99-018
6. FOR FOAM RING DETAIL REFER TO DWG NO. 1251-100-116-02-XX-D99-020
7. FOR FOAM POURERS LOCATION REFER TO SHELL PLATES DEVELOPMENT DWG NO. 1251-100-116-02-XX-D01-017
8. FOR BOTTOM NOZZLES CUTTING DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-012~015



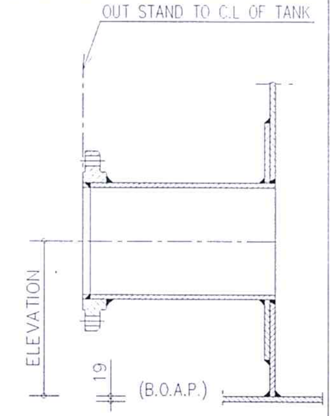
1- Nozzle orientation shall be 144° for all tanks except tank 020-T-02 nozzle orientation shall be 54°

BOTTOM & SHELL ORIENTATION
1:300

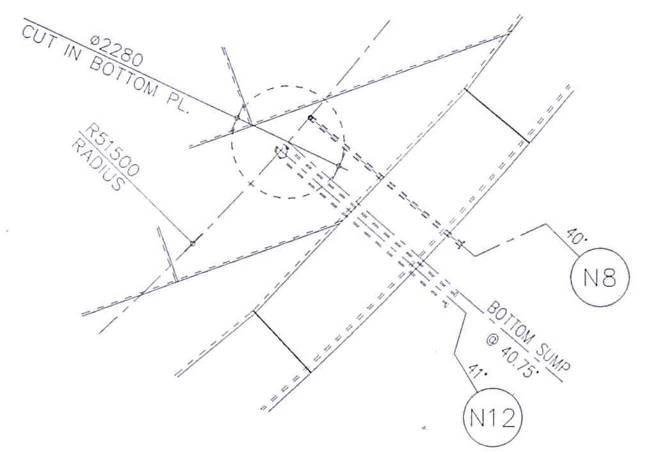
BOTTOM & SHELL FITTING							
NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52''	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30''	150# RF	789	55300	MIXER	123.75°
N4B	1	30''	150# RF	789	55300	MIXER	146.25°
N4C	1	30''	150# RF	789	55300	MIXER	168.75°
N4D	1	30''	150# RF	789	55300	MIXER	191.25°
N4E	1	30''	150# RF	789	55300	MIXER	213.75°
N4F	1	30''	150# RF	789	55300	MIXER	236.25°
N7A	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4''	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2''	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12''	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12''	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2''	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36''	API 650	1069	55300	MANWAY	256°
M2B	1	36''	API 650	1069	55300	MANWAY	314°
M2C	1	36''	API 650	1069	55300	MANWAY	75°
CA	1	36x48''	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48''	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	90°



DETAIL OF NOZZLE N17



TYPICAL SHELL NOZZLE DETAILS



ORIENTATION AT BOTTOM SUMP

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

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THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD. 1
CLIENT: EGPC

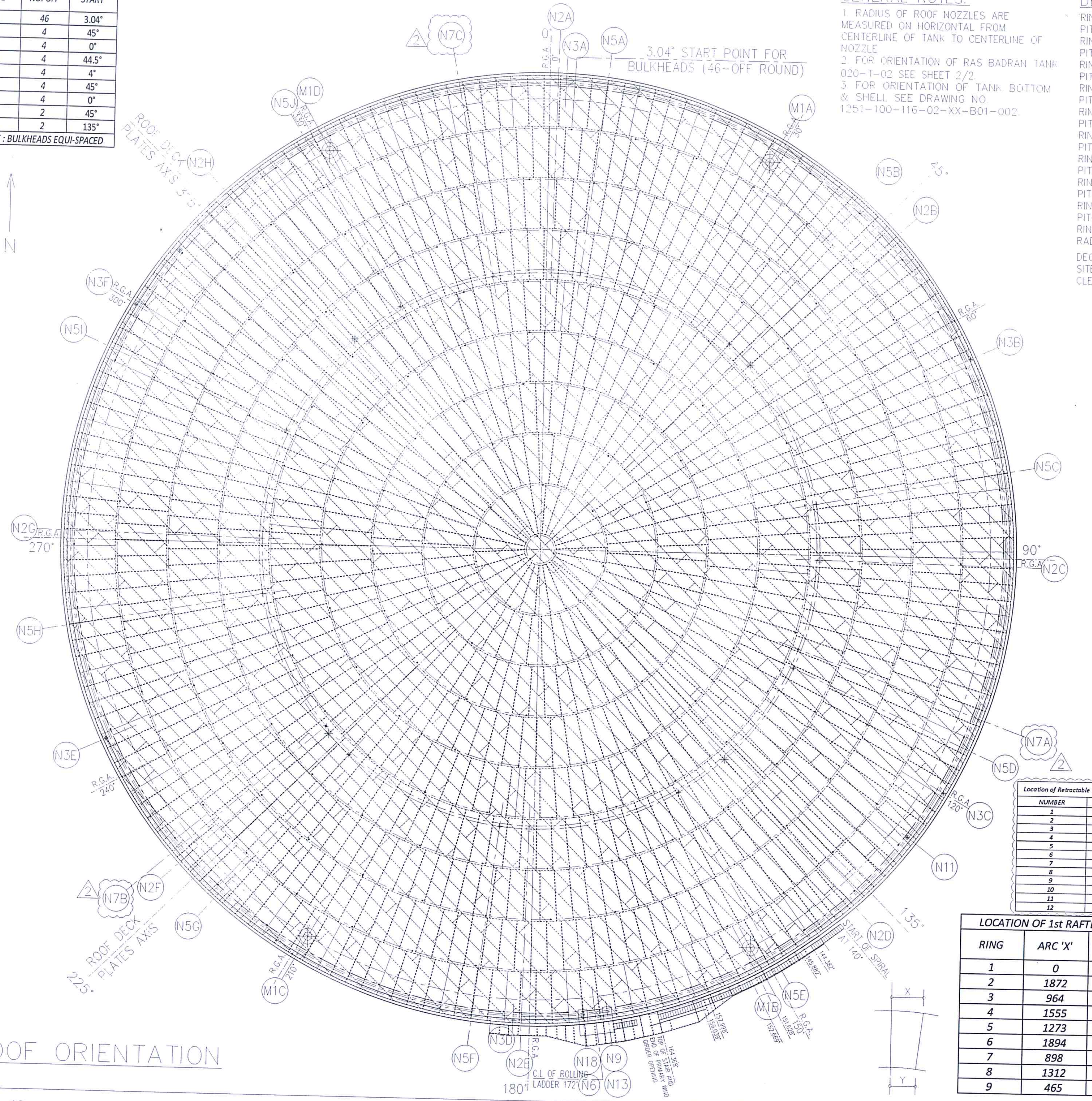
Crude Oil Storage Tanks

TANK I.D. 020-T-02

Bottom & shell Orientation

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-B01-002 | SHEET No. 3 / 3 | REVISION 3

LOCATION OF BULKHEADS		
RING	NO. OFF	START
1	46	3.04°
2	4	45°
3	4	0°
4	4	44.5°
5	4	4°
6	4	45°
7	4	0°
8	2	45°
9	2	135°
NOTE : BULKHEADS EQUI-SPACED		



ROOF ORIENTATION

GENERAL NOTES:

1. RADIUS OF ROOF NOZZLES ARE MEASURED ON HORIZONTAL FROM CENTERLINE OF TANK TO CENTERLINE OF NOZZLE
2. FOR ORIENTATION OF RAS BADRAN TANK 020-T-02 SEE SHEET 2/2.
3. FOR ORIENTATION OF TANK BOTTOM & SHELL SEE DRAWING NO. 1251-100-116-02-XX-B01-002

DECK MANHOLES

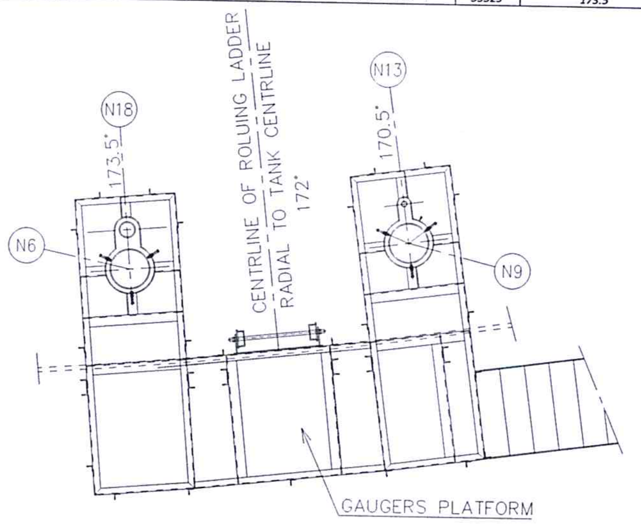
RING 1 – 46 MANHOLES 1 PER COMPARTMENT PITCHED ON A 52000 RADIUS.
RING 2 – 12 MANHOLES 3 PER COMPARTMENT PITCHED ON A 46000 RADIUS.
RING 3 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 40000 RADIUS.
RING 4 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 34000 RADIUS.
RING 5 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 28000 RADIUS.
RING 6 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 22500 RADIUS.
RING 7 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 16500 RADIUS.
RING 8 – 4 MANHOLES 2 PER COMPARTMENT PITCHED ON A 10500 RADIUS.
RING 9 – 2 MANHOLES 1 PER COMPARTMENT PITCHED ON A 4750 RADIUS.
RING 10 – 1 MANHOLES PITCHED ON A 1000 RADIUS.

DECK MANHOLES TO BE LOCATED AS SHOWN. SITE CAN MOVE DECK MANHOLES LOCALLY TO CLEAR ROOF PLATE WELD SEAMS.

ROOF SUPPORT ORIENTATION

RING 1 – 46 LEGS EQUI-PITCHED ON A 53500 RADIUS STARTING AT (SEE BULKHEAD LOCATION).
RING 2 – 41 LEGS EQUI-PITCHED ON A 48600 RADIUS STARTING AT 2.2°.
RING 3 – 36 LEGS EQUI-PITCHED ON A 42725 RADIUS STARTING AT 6.25°.
RING 4 – 31 LEGS EQUI-PITCHED ON A 36850 RADIUS STARTING AT 2.4°.
RING 5 – 26 LEGS EQUI-PITCHED ON A 30975 RADIUS STARTING AT 9.19°.
RING 6 – 21 LEGS EQUI-PITCHED ON A 25100 RADIUS STARTING AT 12.14°.
RING 7 – 17 LEGS EQUI-PITCHED ON A 19225 RADIUS STARTING AT 13.24°.
RING 8 – 12 LEGS EQUI-PITCHED ON A 13350 RADIUS STARTING AT 3.75.
RING 9 – 7 LEGS EQUI-PITCHED ON A 7475 RADIUS STARTING AT 0°.
RING 10 – 3 LEGS EQUI-PITCHED ON A 1600 RADIUS STARTING AT 105°.

ROOF FITTING						
MARK	NO. OFF	SIZE	RATING FACING	DESCRIPTION	RADIUS	ANGLE
N2 (A-H)	8	12"	STD	AUTOMATIC BLEEDER VENT	32300	1, 47.5, 91, 137.5, 181, 227.5, 271, 317.5
N3 (A-F)	6	6"	150# RF	RIM VENT	54400	2, 65, 120, 182, 245, 300
N5 (A-J)	10	6"	STD	EMERGNCY DRAIN	32300	7, 41.5, 79.5, 114, 149, 187, 221.5, 259.5, 294, 329
N6	1	16" / 8"	150# RF	GAUGE HATCH / GUIDE POLE	53925	173.5
N7A	1	4"	STD	ROOF RAIN DRAIN	31950	110
N7B	1	4"	STD	ROOF RAIN DRAIN	31950	229
N7C	1	4"	STD	ROOF RAIN DRAIN	31950	349
N9	1	12"	150# RF	TANK GAUGING RADAR / LEVEL TRANSMITTER	53925	170.5
N11	1	8"	150# RF	MANUAL GAUGE	53750	127
N13	1	2"	150# RF	MULTI-SPOT TEMPERATURE TRANSMITTER	53525	170.5
N16	105	24"	API 650	PONTOON MANWAY cw COVER	VARIES	SEE DRAWING
M1A	1	36"	API 650	MANWAY	52000	29.5
M1B	1	36"	API 650	MANWAY	52000	151
M1C	1	36"	API 650	MANWAY	52000	331
M1D	1	36"	API 650	MANWAY	52000	209.5
N18	1	6"	300# RF	GUIDED WAVE LEVEL TRANSMITTER	53525	173.5



POLE ORIENTATION DETAIL

Location of Retractable Grounding assembly	
NUMBER	ANGLE
1	0
2	30
3	60
4	90
5	120
6	150
7	180
8	210
9	240
10	270
11	300
12	330

LOCATION OF 1st RAFTER TO 0°		
RING	ARC 'X'	ARC 'Y'
1	0	0
2	1872	1648
3	964	832
4	1555	1308
5	1273	1033
6	1894	1455
7	898	627
8	1312	745
9	465	110

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	10/02/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	30/12/2019	ISSUED FOR APPROVAL	M.D.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

Crude Oil Storage Tanks
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06
ROOF ORIENTATION

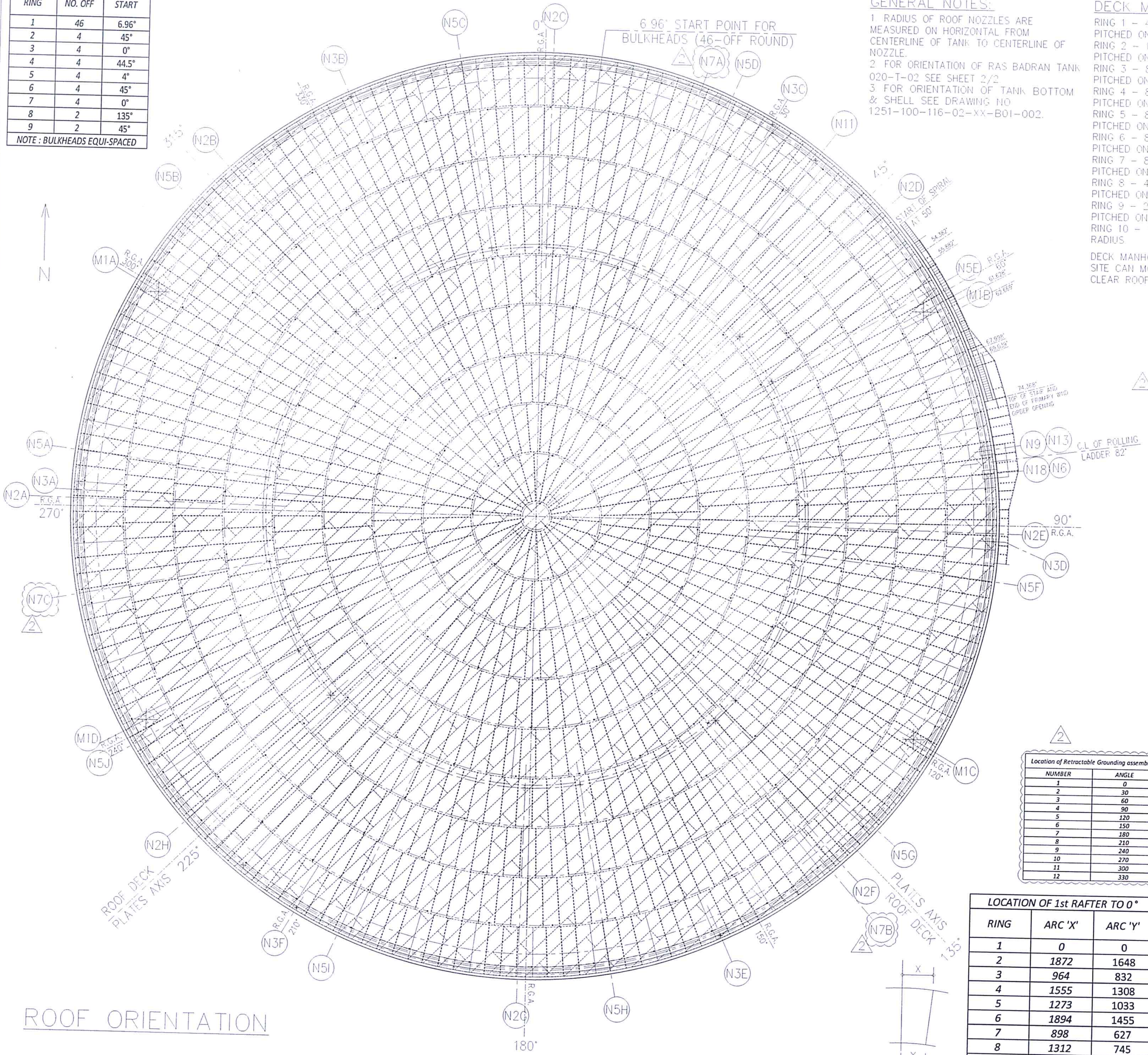
DIMS. IN mm
FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-B01-003

SHEET No. 1 / 2
REVISION 2

LOCATION OF BULKHEADS		
RING	NO. OFF	START
1	46	6.96°
2	4	45°
3	4	0°
4	4	44.5°
5	4	4°
6	4	45°
7	4	0°
8	2	135°
9	2	45°

NOTE : BULKHEADS EQUI-SPACED



ROOF ORIENTATION

GENERAL NOTES:

1. RADIUS OF ROOF NOZZLES ARE MEASURED ON HORIZONTAL FROM CENTERLINE OF TANK TO CENTERLINE OF NOZZLE.
2. FOR ORIENTATION OF RAS BADRAN TANK 020-T-02 SEE SHEET 2/2
3. FOR ORIENTATION OF TANK BOTTOM & SHELL SEE DRAWING NO 1251-100-116-02-XX-B01-002.

DECK MANHOLES

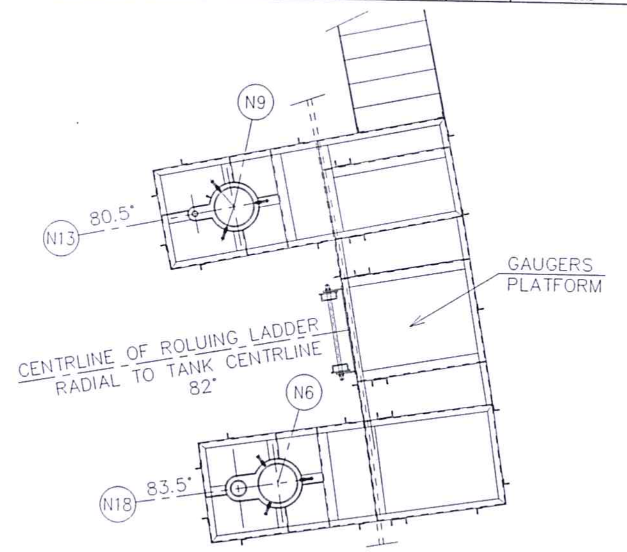
RING 1 – 46 MANHOLES 1 PER COMPARTMENT PITCHED ON A 52000 RADIUS.
RING 2 – 12 MANHOLES 3 PER COMPARTMENT PITCHED ON A 46000 RADIUS.
RING 3 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 40000 RADIUS.
RING 4 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 34000 RADIUS.
RING 5 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 28000 RADIUS.
RING 6 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 22500 RADIUS.
RING 7 – 8 MANHOLES 2 PER COMPARTMENT PITCHED ON A 16500 RADIUS.
RING 8 – 4 MANHOLES 2 PER COMPARTMENT PITCHED ON A 10500 RADIUS.
RING 9 – 2 MANHOLES 1 PER COMPARTMENT PITCHED ON A 4750 RADIUS.
RING 10 – 1 MANHOLES PITCHED ON A 1000 RADIUS.

DECK MANHOLES TO BE LOCATED AS SHOWN. SITE CAN MOVE DECK MANHOLES LOCALLY TO CLEAR ROOF PLATE WELD SEAMS.

ROOF SUPPORT ORIENTATION

RING 1 – 46 LEGS EQUI-PITCHED ON A 53500 RADIUS STARTING AT (SEE BULKHEAD LOCATION).
RING 2 – 41 LEGS EQUI-PITCHED ON A 48600 RADIUS STARTING AT 0°
RING 3 – 36 LEGS EQUI-PITCHED ON A 42725 RADIUS STARTING AT 6.25°
RING 4 – 31 LEGS EQUI-PITCHED ON A 36850 RADIUS STARTING AT 5.31°
RING 5 – 26 LEGS EQUI-PITCHED ON A 30975 RADIUS STARTING AT 2.27°
RING 6 – 21 LEGS EQUI-PITCHED ON A 25100 RADIUS STARTING AT 7.86°
RING 7 – 17 LEGS EQUI-PITCHED ON A 19225 RADIUS STARTING AT 7.94°
RING 8 – 12 LEGS EQUI-PITCHED ON A 13350 RADIUS STARTING AT 3.75°
RING 9 – 7 LEGS EQUI-PITCHED ON A 7475 RADIUS STARTING AT 12.88°
RING 10 – 3 LEGS EQUI-PITCHED ON A 1600 RADIUS STARTING AT 15°

ROOF FITTING						
MARK	NO. OFF	SIZE	RATING FACING	DESCRIPTION	RADIUS	ANGLE
N2 (A-H)	8	12"	STD	AUTOMATIC BLEEDER VENT	32300	1, 47.5, 91, 137.5, 181, 227.5, 271, 317.5
N3 (A-F)	6	6"	150# RF	RIM VENT	54400	2, 65, 120, 182, 245, 300
N5 (A-J)	10	6"	STD	EMERGNCY DRAIN	32300	7, 41.5, 79.5, 114, 149, 187, 221.5, 259.5, 294, 329
N6	1	16" / 8"	150# RF	GAUGE HATCH / GUIDE POLE	53925	83.5
N7A	1	4"	STD	ROOF RAIN DRAIN	31950	20
N7B	1	4"	STD	ROOF RAIN DRAIN	31950	139
N7C	1	4"	STD	ROOF RAIN DRAIN	31950	259
N9	1	12"	150# RF	TANK GAUGING RADAR / LEVEL TRANSMITTER	53925	80.5
N11	1	8"	150# RF	MANUAL GAUGE	53750	37
N13	1	2"	150# RF	MULTI-SPOT TEMPERATURE TRANSMITTER	53525	80.5
N16	105	24"	API 650	PONTOON MANWAY cw COVER	VARIES	SEE DRAWING
M1A	1	36"	API 650	MANWAY	52000	299.5
M1B	1	36"	API 650	MANWAY	52000	61
M1C	1	36"	API 650	MANWAY	52000	241
M1D	1	36"	API 650	MANWAY	52000	119.5
N18	1	6"	300# RF	GUIDED WAVE LEVEL TRANSMITTER	53525	83.5



POLE ORIENTATION DETAIL

Location of Retractable Grounding assembly	
NUMBER	ANGLE
1	0
2	30
3	60
4	90
5	120
6	150
7	180
8	210
9	240
10	270
11	300
12	330

LOCATION OF 1st RAFTER TO 0°		
RING	ARC 'X'	ARC 'Y'
1	0	0
2	1872	1648
3	964	832
4	1555	1308
5	1273	1033
6	1894	1455
7	898	627
8	1312	745
9	465	110

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	10/02/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	30/12/2019	ISSUED FOR APPROVAL	M.D.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD. I
CLIENT: EGPC

Crude Oil Storage Tanks

TANK I.D. 020-T-02

ROOF ORIENTATION

DIMS. IN mm
FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-B01-003

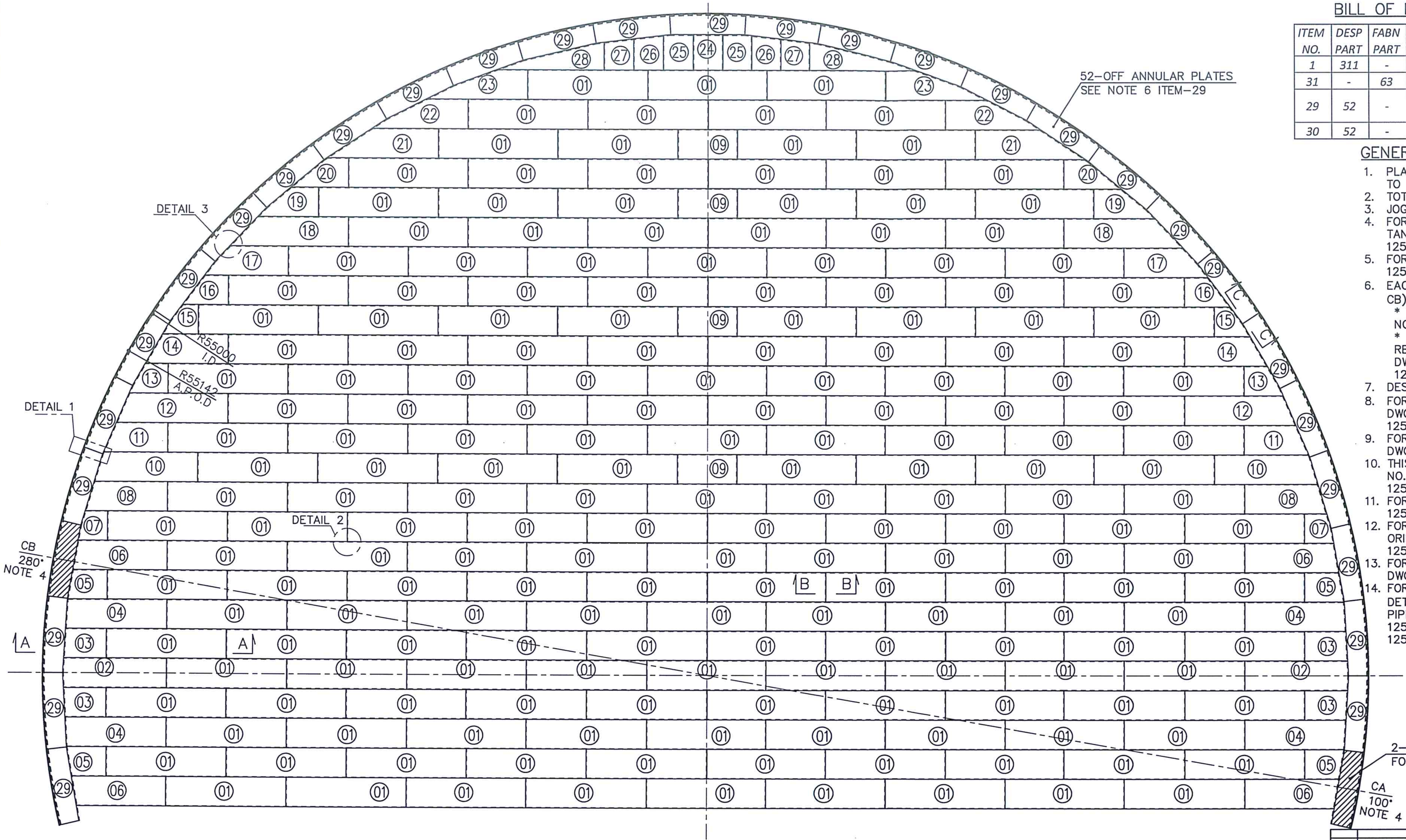
SHEET No. 2 / 2
REVISION 2

BILL OF MATERIAL

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	311	-	ASTM 'A283 Gr.C	COMMON PLATE 2500x7.6x10000
31	-	63	ASTM 'A283 Gr.C	SKETCH PLATE 2500x7.6x10000
29	52	-	ASTM 'A537 CL 2	ANNULAR PLATE :19 THK SHAPED TO DRAWING c/f 1850x19x6420
30	52	-	ASTM 'A283 Gr.C	BACKING STRAP 50x5 FB 1740 LG

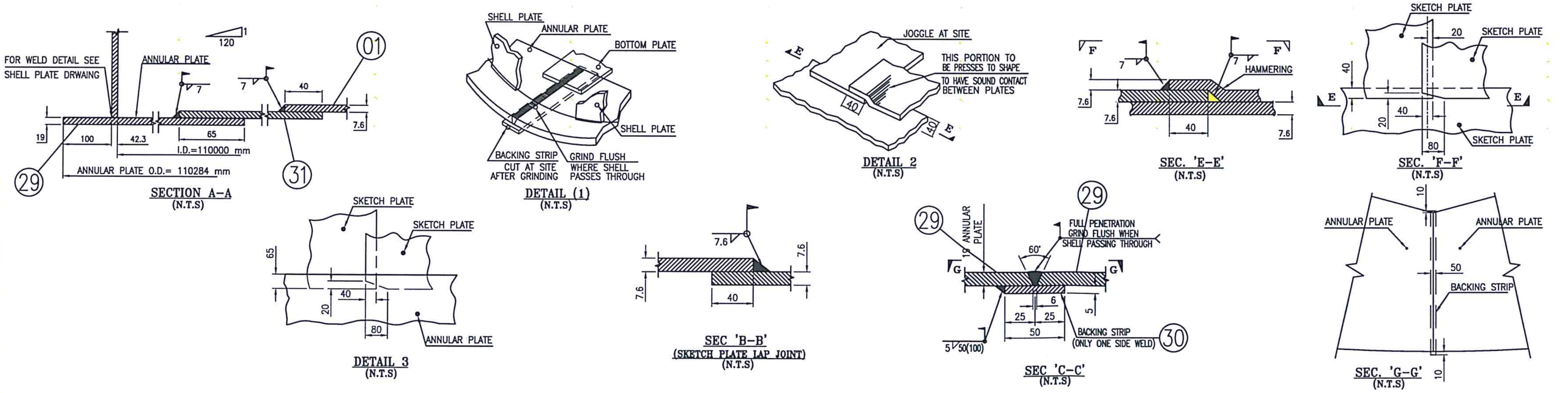
GENERAL NOTES: –

1. PLATING WELD LENGTH=4830 METERS SKETCH PLATE TO ANNULAR WELD LENGTH=338 METERS
2. TOTAL ANNULAR BUTT WELD LENGTH=90.7 METERS
3. JOGGLE ALL THREE PLATE LAP JOINTS ON SITE.
4. FOR LOCATIONS OF ANNULAR & BOTTOM PLATES SEE TANK ORIENTATION DWG. NO. 1251–100–116–02–XX–B01–002.
5. FOR DETAILS OF ANNULAR PLATES SEE DWG. NO. 1251–100–116–02–XX–D01–002.
6. EACH TANK HAS 2–OFF CLEAN OUT DOORS (CA & CB), ANNULAR PLATES BASED ON 54–ROUND,
   * 52–OFF REQUIRED 19 THK. AS DETAILED ON DWG. NO. 1251–100–116–02–XX–D01–002.
   * 2–OFF REQUIRED 36 THK. OR THICKENED UP TO REINFORCED PLATES FOR CLEAN OUT DOORS REFER DWG. No 1251–100–116–02–XX–D01–003 & 1251–100–116–02–XX–D01–004 .
7. DESIGN CODE API–650 11 EDITION ADDENDUM 3.
8. FOR DETAILS OF BOTTOM/INLET OUTLET REFER TO DWG. NO. 1251–100–116–02–XX–D01–012 & 1251–100–116–02–XX–D01–013.
9. FOR DETAILS OF BOTTOM DRAW OFF SUMP REFER TO DWG. NO. 1251–100–116–02–XX–D01–016.
10. THIS DRAWING IS READING IN CONJUNCTION WITH DWG. NO. 1251–100–116–02–XX–D01–002 AND 1251–100–116–02–XX–B01–002.
11. FOR SURFACE PREPARATION REFER TO G.A. NO. 1251–100–116–02–XX–B01–001.
12. FOR ORIENTATION OF DRAW–OFF SUMP REFER TO ORIENTATION DWG. NO. 1251–100–116–02–XX–B01–002.
13. FOR DETAILS OF BOTTOM WATER DRAIN OFF REFER TO DWG. NO. 1251–100–116–02–XX–D01–014 & 015.
14. FOR ANNULAR PLATE AND BOTTOM PLATES CUTTING DETAILS AT INLET/OUTLET PIPE & WATER DRAIN OFF PIPE LOCATIONS REFER TO DWG. NO. 1251–100–116–02–XX–D01–012 & 014 1251–100–116–02–XX–B01–002.



HALF PLAN ON BOTTOM PLATES

SLOPE (1:120) UP TO TANK CENTER
SCALE 1:250



REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	19/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
3	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO–A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

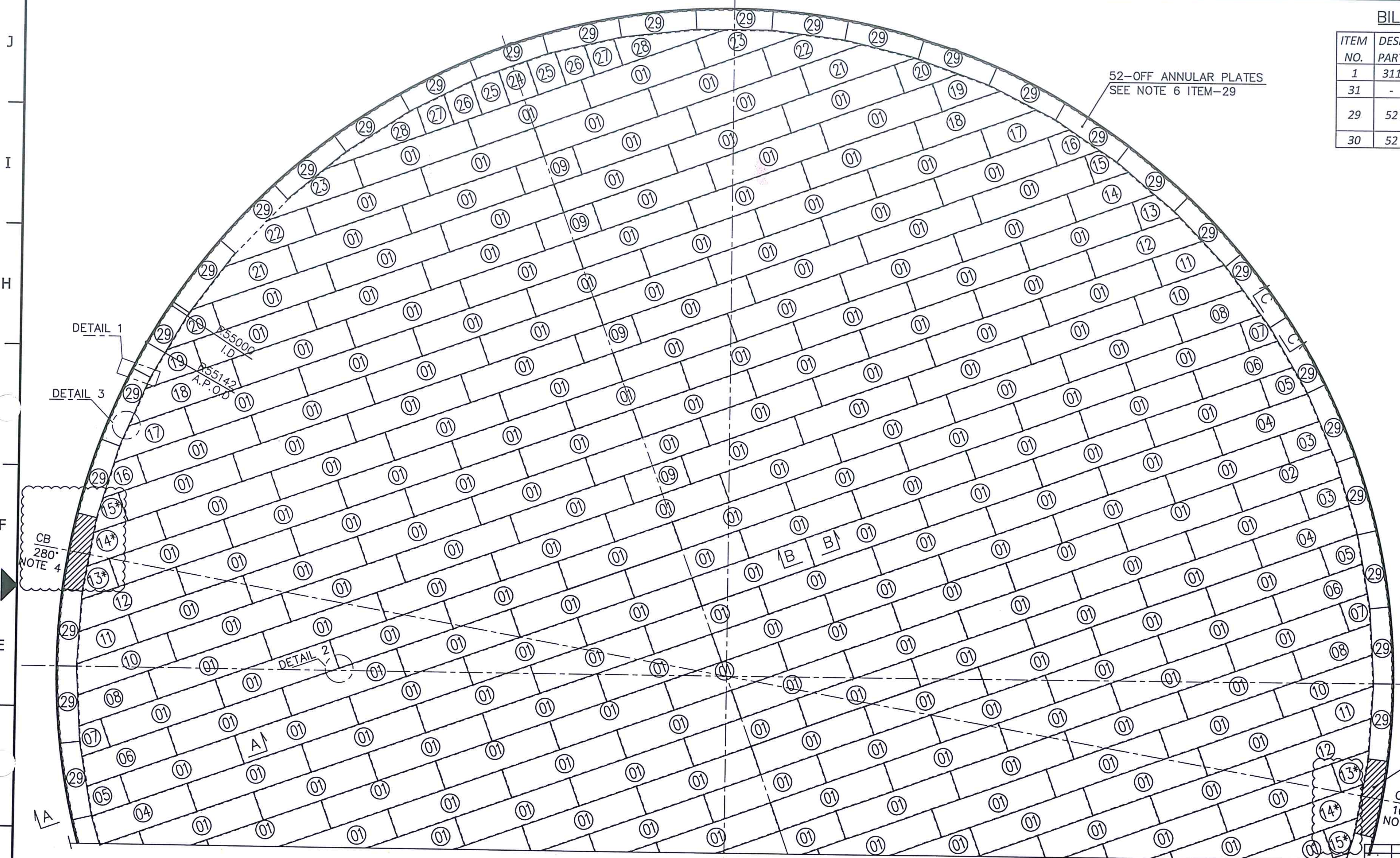
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Bottom Plate Arrangement

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-001	1 OF 2	4



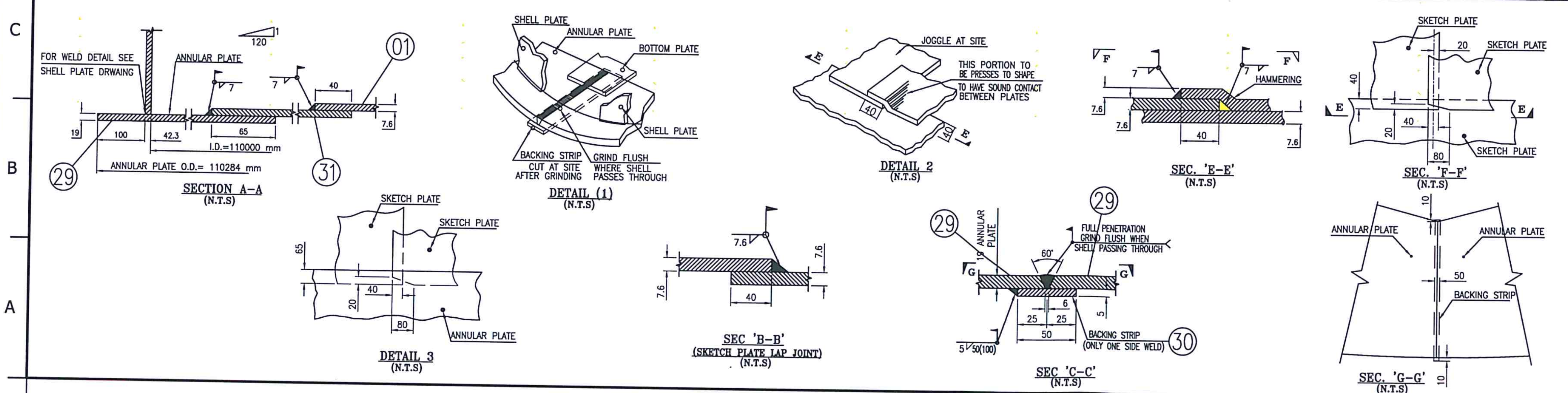
BILL OF MATERIAL

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	311	-	ASTM 'A283 Gr.C	COMMON PLATE 2500x7.6x10000
31	-	63	ASTM 'A283 Gr.C	SKETCH PLATE 2500x7.6x10000
29	52	-	ASTM 'A537 CL 2	ANNULAR PLATE :19 THK SHAPED TO DRAWING c/f 1850x19x6420
30	52	-	ASTM 'A283 Gr.C	BACKING STRAP 50x5 FB 1740 LG

GENERAL NOTES: –

1. PLATING WELD LENGTH=4830 METERS SKETCH PLATE TO ANNULAR WELD LENGTH=338 METERS
2. TOTAL ANNULAR BUTT WELD LENGTH=90.7 METERS
3. JOGGLE ALL THREE PLATE LAP JOINTS ON SITE.
4. FOR LOCATIONS OF ANNULAR & BOTTOM PLATES SEE TANK ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-002.
5. FOR DETAILS OF ANNULAR PLATES SEE DWG. NO. 1251-100-116-02-XX-D01-002.
6. EACH TANK HAS 2-OFF CLEAN OUT DOORS (CA & CB), ANNULAR PLATES BASED ON 54-ROUND,
   * 52-OFF REQUIRED 19 THK. AS DETAILED ON DWG. NO. 1251-100-116-02-XX-D01-002.
   * 2-OFF REQUIRED 36 THK. OR THICKENED UP TO REINFORCED PLATES FOR CLEAN OUT DOORS REFER DWG. No 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004 .
7. DESIGN CODE API-650 11 EDITION ADDENDUM 3.
8. FOR DETAILS OF BOTTOM/INLET OUTLET REFER TO DWG. NO. 1251-100-116-02-XX-D01-012 & 1251-100-116-02-XX-D01-013.
9. FOR DETAILS OF BOTTOM DRAW OFF SUMP REFER TO DWG. NO. 1251-100-116-02-XX-D01-016.
10. THIS DRAWING IS READING IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-002 AND 1251-100-116-02-XX-B01-002.
11. FOR SURFACE PREPARATION REFER TO G.A. NO. 1251-100-116-02-XX-B01-001.
12. FOR ORIENTATION OF DRAW-OFF SUMP REFER TO ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-002.
13. FOR DETAILS OF BOTTOM WATER DRAIN OFF REFER TO DWG. NO. 1251-100-116-02-XX-D01-014 & 015.
14. FOR ANNULAR PLATE AND BOTTOM PLATES CUTTING DETAILS AT INLET/OUTLET PIPE & WATER DRAIN OFF PIPE LOCATIONS REFER TO DWG. NO. 1251-100-116-02-XX-D01-012 & 014 1251-100-116-02-XX-B01-002.

HALF PLAN ON BOTTOM PLATES
SLOPE (1:120) UP TO TANK CENTER
SCALE 1:250



REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	19/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
3	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

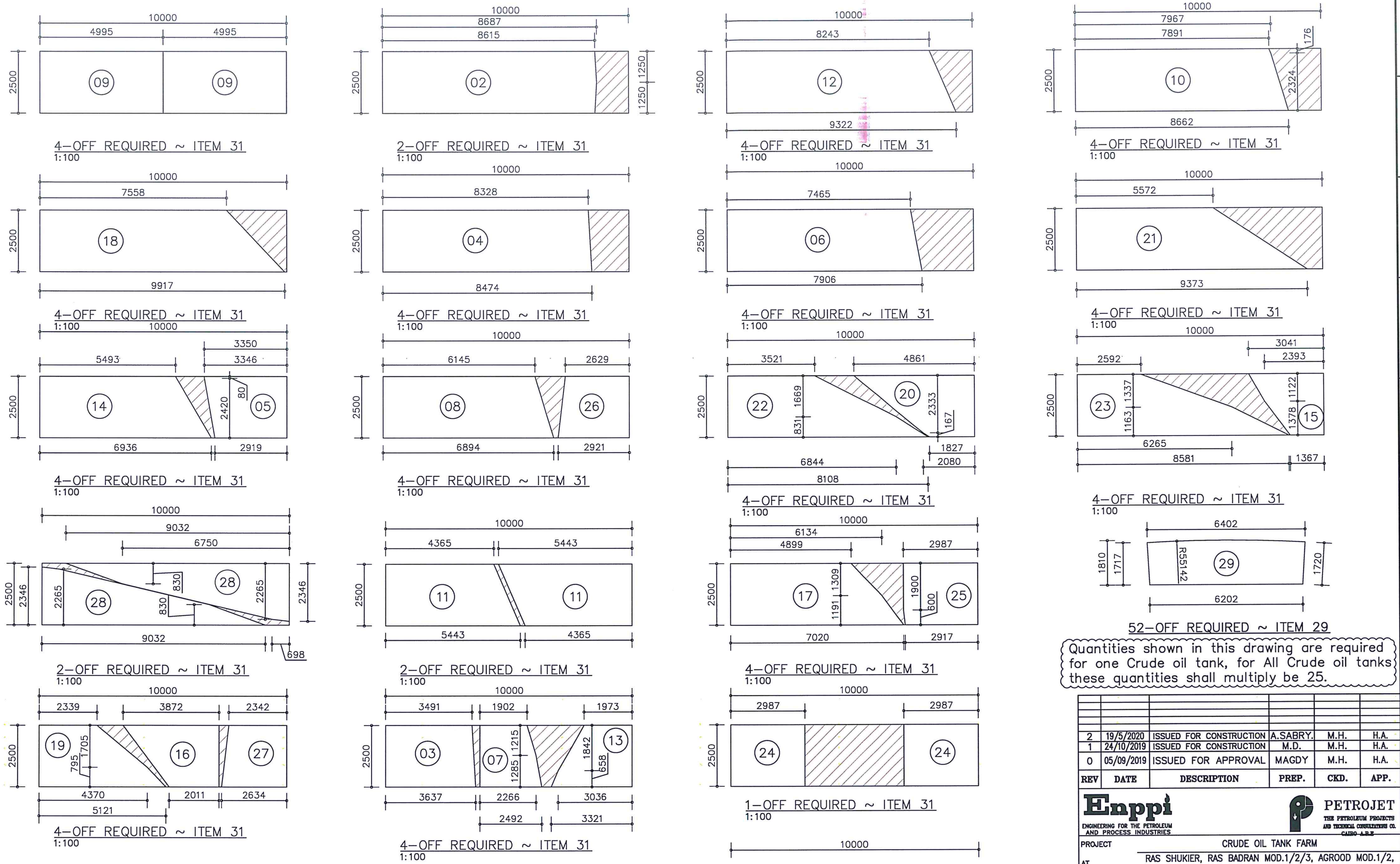
PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD.3
CLIENT: EGPC

CRUDE OIL STORAGE TANK

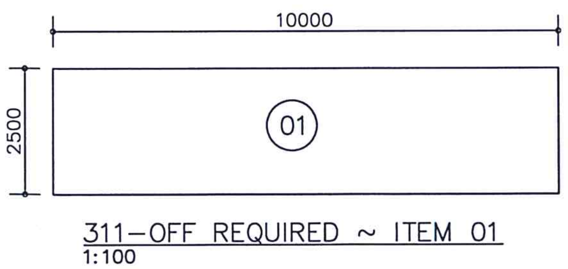
TANK I.D. 022-T-01/02/03/04

Bottom Plate Arrangement

DIMS. IN mm FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-001	SHEET No. 2 OF 2	REVISION 4



Quantities shown in this drawing are required for one Crude oil tank, for All Crude oil tanks these quantities shall multiply be 25.



GENERAL NOTES:–

1. FOR DETAILS OF CLEAN OUT DOOR REFER TO DWG. NO. 1251-100-116-02-XX-D01-003, 1251-100-116-02-XX-D01-004 & 1251-100-116-02-XX-D01-005.
2. FOR DETAILS OF BOTTOM/INLET OUTLET CONN. N1 REFER TO DWG. NO. 1251-100-116-02-XX-D01-012 & 1251-100-116-02-XX-D01-013.
3. FOR DETAILS OF BOTTOM DRAW OFF CONN N10 REER TO DWG. NO. 1251-100-116-02-XX-D01-016.
4. THIS DRAWING IS READING IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-001.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	19/5/2020	ISSUED FOR CONSTRUCTION	A.SABRY.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

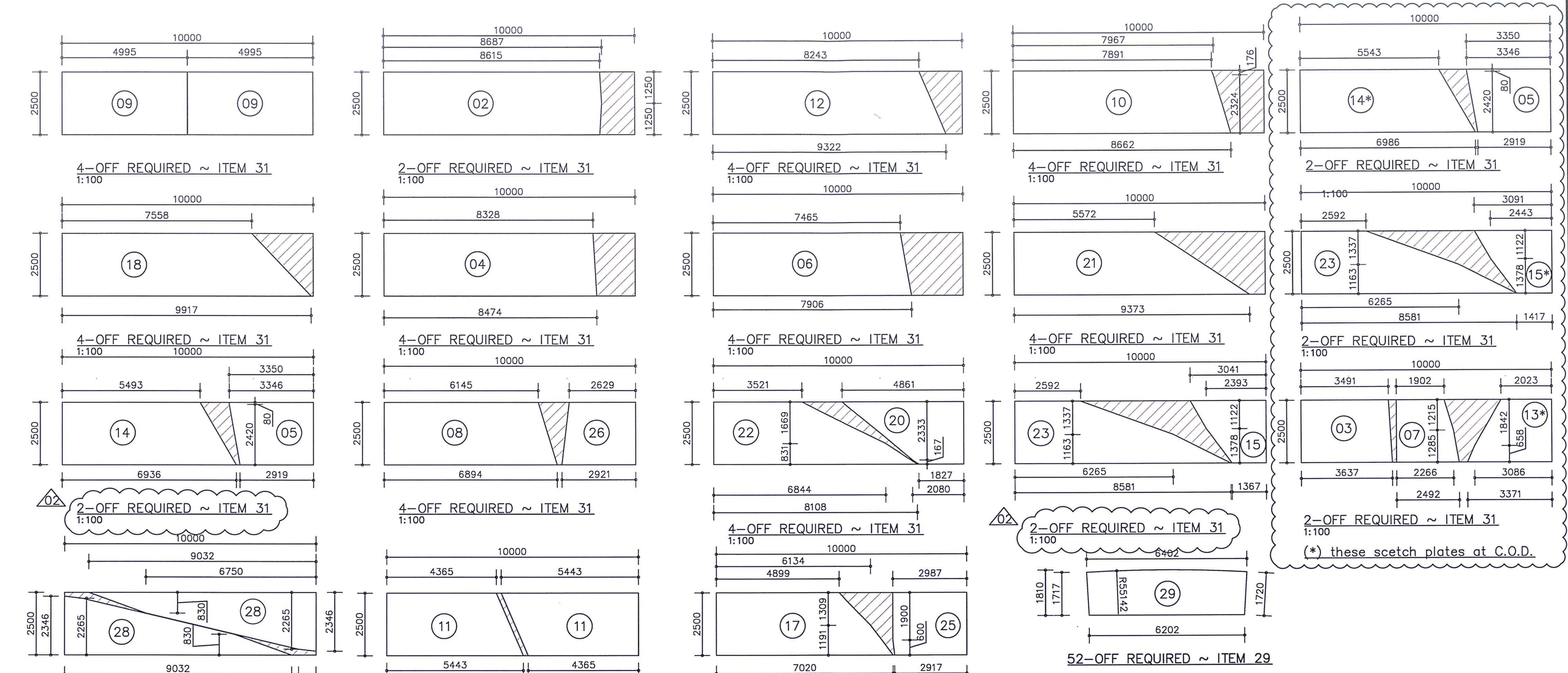
CLIENT: EGPC

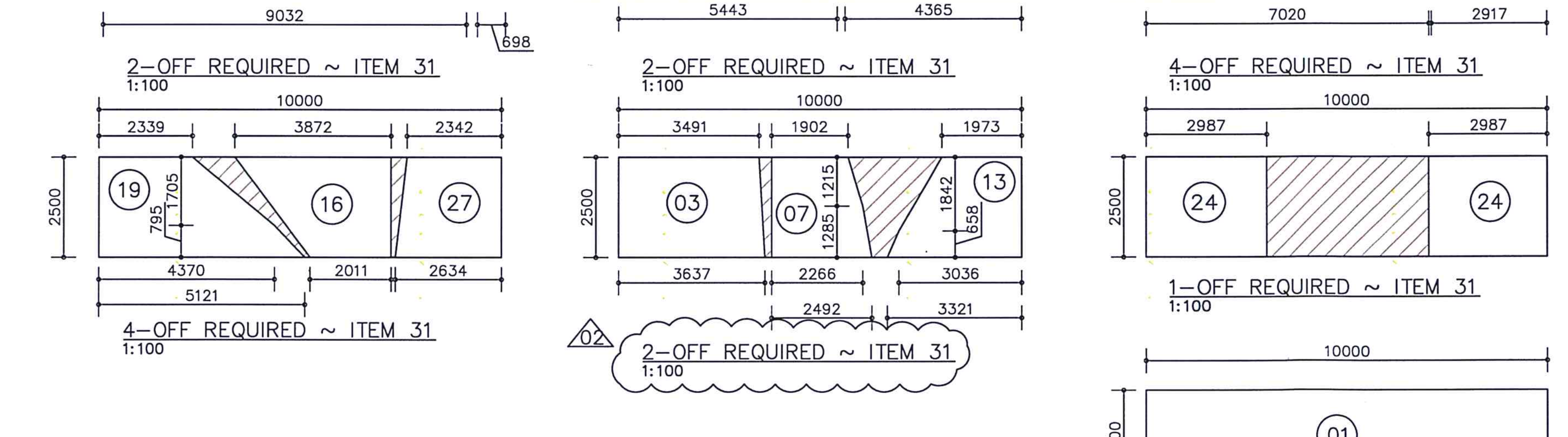
CRUDE OIL STORAGE TANK

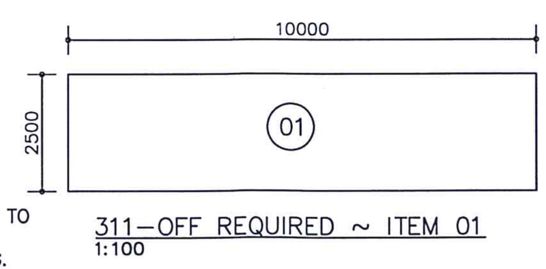
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Bottom Plate Cutting Details

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-002	1 OF 2	02







Quantities shown in this drawing are required for one Crude oil tank, for All Crude oil tanks (022-T-01/02/03/04)these quantities shall multiply be 4.

GENERAL NOTES:-

1. FOR DETAILS OF CLEAN OUT DOOR REFER TO DWG. NO. 1251-100-116-02-XX-D01-003, 1251-100-116-02-XX-D01-004 & 1251-100-116-02-XX-D01-005.
2. FOR DETAILS OF BOTTOM/INLET OUTLET CONN. N1 REFER TO DWG. NO. 1251-100-116-02-XX-D01-012 & 1251-100-116-02-XX-D01-013.
3. FOR DETAILS OF BOTTOM DRAW OFF CONN N10 REER TO DWG. NO. 1251-100-116-02-XX-D01-016.
4. THIS DRAWING IS READING IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-001.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	19/05/2020	ISSUED FOR CONSTRUCTION	A.SABRY.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

PROJECT: CRUDE OIL TANK FARM

AT: RAS BADRAN MOD.3

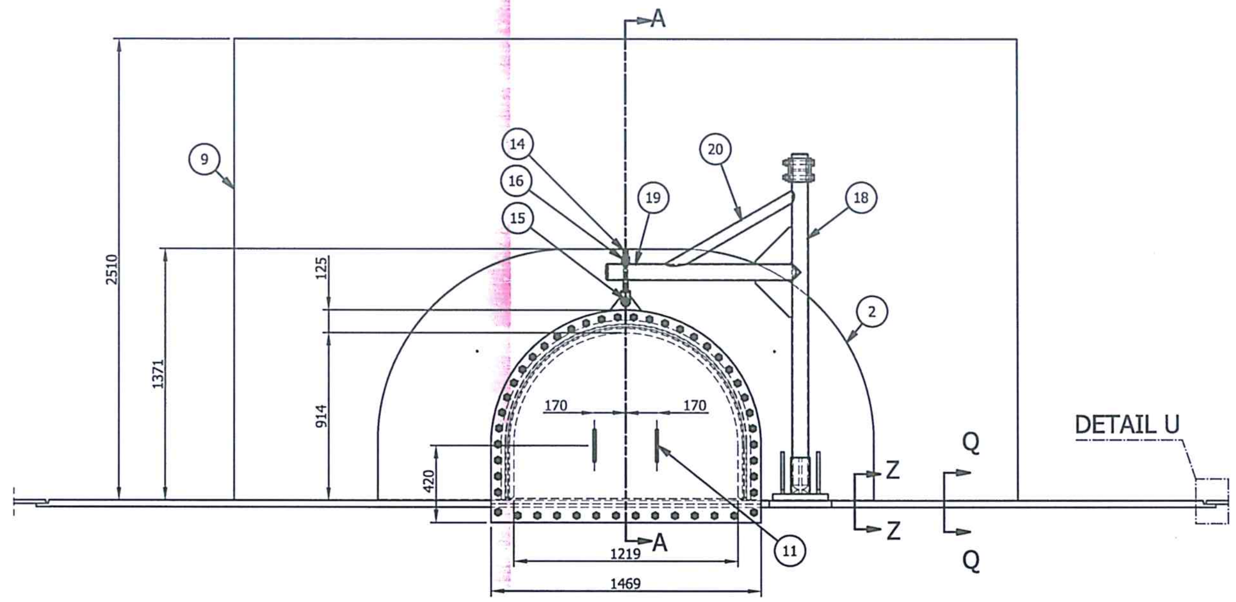
CLIENT: EGPC

CRUDE OIL STORAGE TANK

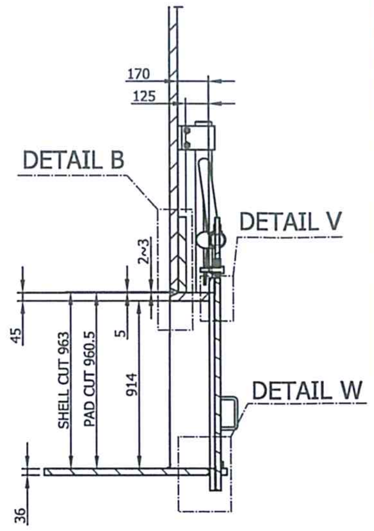
TANK I.D. 022-T-01/02/03/04

Bottom Plate Cutting Details

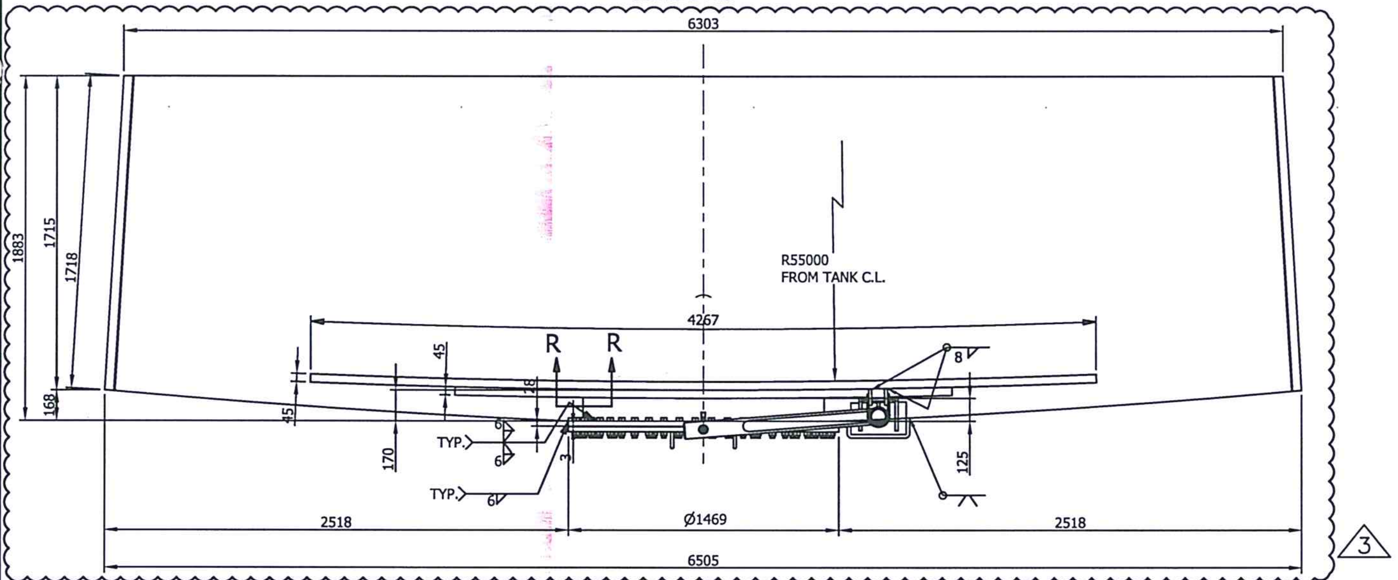
DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-002	SHEET No. 2 OF 2	REVISION 02



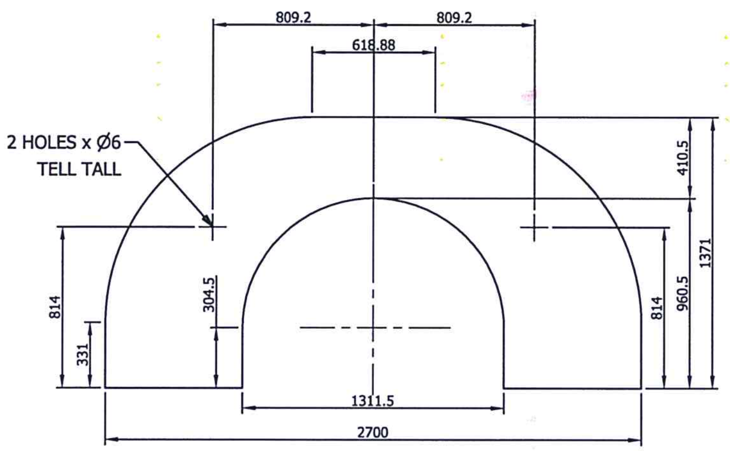
ELEVATION VIEW
SCALE 1 : 28



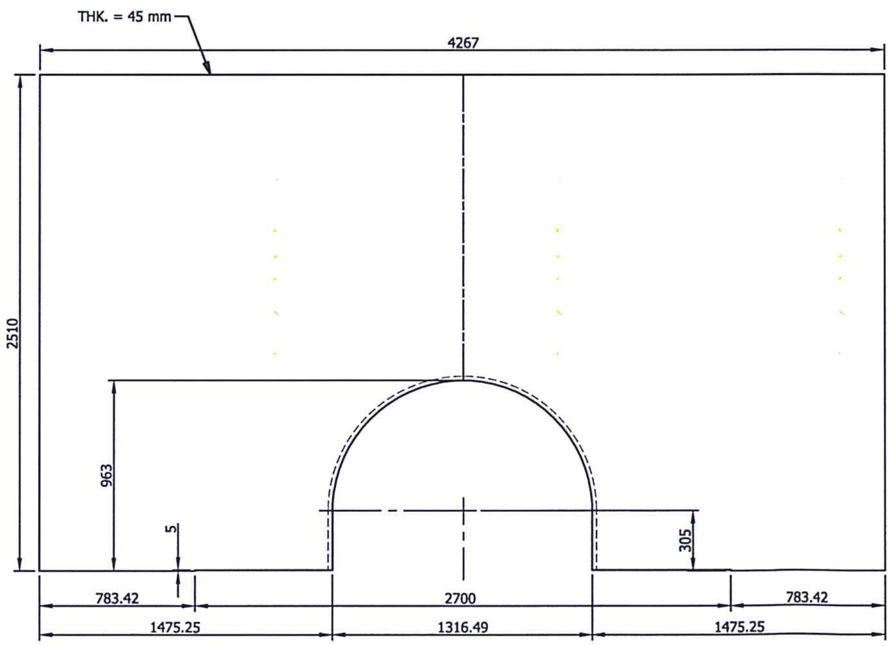
SECTION A-A
SCALE (1 : 28)



TOP VIEW
SCALE (1 : 28)



REINFORCING PLATE



SHELL PLATE
SCALE 1 : 26
ITEM NO. 9

BILL OF MATERIAL

ITEM	DESCRIPTION	MATERIAL	QTY.	MASS kg
1	PL. 2594 x 219 x 45	ASTM A537 CL 2	1	187.79
2	PL. 2700 x 1371 x 45	ASTM A537 CL 2	1	763.59
3	PL. 1469 x 1039 x 28 FROM 31 MIN. THK.	ASTM A537 CL 2	1	45.05
4	GASKET (as per drawing) 3 THK.	CNAF	1	1.04
5	PL. 1469 x 120 x 28 FROM 31 MIN. THK.	ASTM A537 CL 2	1	36.98
6	PL. 1469 x 1159 x 28 FROM 31 MIN. THK.	ASTM A537 CL 2	1	414.32
7	Bolt M24, L=91	BS 4882 GR B7	46	0.47
8	Nut M24	BS 4882 GR 2H	46	0.08
9	PL. 4267 x 2510 x 45	ASTM A537 CL 2	1	3388.67
10	PL. 6505 x 1883 x 36	A537 CL.2	1	3461.54
11	ROD BAR Ø16, LENGTH 332	ST44	2	1.03
12	PL. 80 x 175 x 10	A283 GR C	1	0.57
13	PL. 75 x 50 x 10	A283 GR.C	2	0.41
14	Stud Bolt M24, L=223	BS 4882 GR B7	1	0.79
15	Bolt M24, L=110	BS 4882 GR B7	1	0.54
16	Nut M24	BS 4882 GR 2H	3	0.08
17	WASHER FOR M24 Bolt	BRASS	1	0.02
18	NPS 3, SCH 40, L=1800	ASTM A106 GR B	1	20.33
19	NPS 3, SCH 40, L=1053	ASTM A106 GR B	1	11.44
20	NPS 2, SCH 40, L=800	ASTM A106 GR B	1	4.06
21	PL. O.D. = 78 x 10 THK.	A283 GR.C	2	0.75
22	PL. 200 x 200 x 10	A283 GR.C	2	3.58
23	PL. 130 x 90 x 19	ASTM A537 CL 2	2	3.5
24	PL. 415 x 130 x 10	A283 GR.C	1	4.11
25	Bolt M20, L=152	BS 4882 GR B7	2	0.49
26	PL. 75 x 70 x 10	A283 GR.C	1	0.41
27	NPS 3.5, SCH 40, L=130	ASTM A106 GR B	1	1.75
28	Nut M20	BS 4882 GR 2H	2	0.06
29	PL. 111 x 340 x 36	ASTM A537 CL 2	1	9.79
30	PL. 300 x 178 x 36	ASTM A537 CL 2	1	14.84
31	NPS 3.5, SCH 40, L=200	ASTM A106 GR B	1	2.7
32	PL. 32 x 50 x 10	A283 GR.C	2	0.13
33	PL. 200 x 54 x 19	ASTM A537 CL 2	1	1.62
34	PL. 230 x 187 x 19	ASTM A537 CL 2	2	12.83
35	CAP BEARING Ø89 x 25	A283 GR C	2	0.67

3 TOTAL WEIGHT =8395.99 kg

GENERAL NOTES:—

1. THIS DRAWING IS FOR FABRICATION ONLY. FOR CLEANOUT DOOR LOCATION REFER TO TANK ORIENTATION DWG. NO. 1251–100–116–02–XX–B01–002 & 003.
2. FOR GENERAL NOTES REFER TO DWG. NO. 1251–100–116–02–XX–B01–001.
3. THE CLEANOUT DOOR TO BE COMPLETELY ASSEMBLED, AND THE COMPLETE UNIT WITH ITS SHELL PLATE TO BE THERMALLY STRESS RELIEVED ACCORDING TO API 650 CL. 5.7.7.3 AND 5.7.4.3.
4. FOR DETAILS OF THE NOTCH IN THE R.C. RING BEAM UNDER THE CLEANOUT DOOR REFER TO FOUNDATION DWGS.
5. FOR BOTTOM PLATES ARRANGEMENT & BOTTOM PLATES CUTTING DETAILS REFER TO DWG. NO. 1251–100–116–02–XX–D01–001 & 1251–100–116–02–XX–D01–002.
6. SPARE PARTS FOR COMMISSIONING AND START UP SHALL BE:
   a. THREE COMPLETE SETS OF GASKETS FOR MANHOLES, BLIND CONNECTIONS AND INTERNALS.
   b. L 10% OF BOLTING (MIN. 5 PIECES OF EACH SIZE) FOR MANHOLES, BLIND CONNECTIONS AND INTERNALS.
7. TWO YEARS OPERATIONAL SPARE PARTS, SHALL BE:
   a. THREE COMPLETE SETS OF GASKETS FOR MANHOLES, BLIND CONNECTIONS AND INTERNALS.
   b. 10% OF BOLTING AND NUTS (MIN. 5 PIECES OF EACH SIZE) FOR MANHOLES, BLIND CONNECTIONS AND INTERNALS.
8. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251–100–116–02–XX–D01–004 & 1251–100–116–02–XX–D01–005.
9. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DRAWING NO. 1251–100–116–02–XX–B01–001.
10. BOLTING /NUTS SHALL BE HDG .
11. THE REINFORCING PLATES ON THE SHELL SHALL BE LEAK TESTED USING AIR AT 1 BAR(G) AND CHEMICALLY INACTIVE SOAP SUDS.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	19/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO-A.R.E

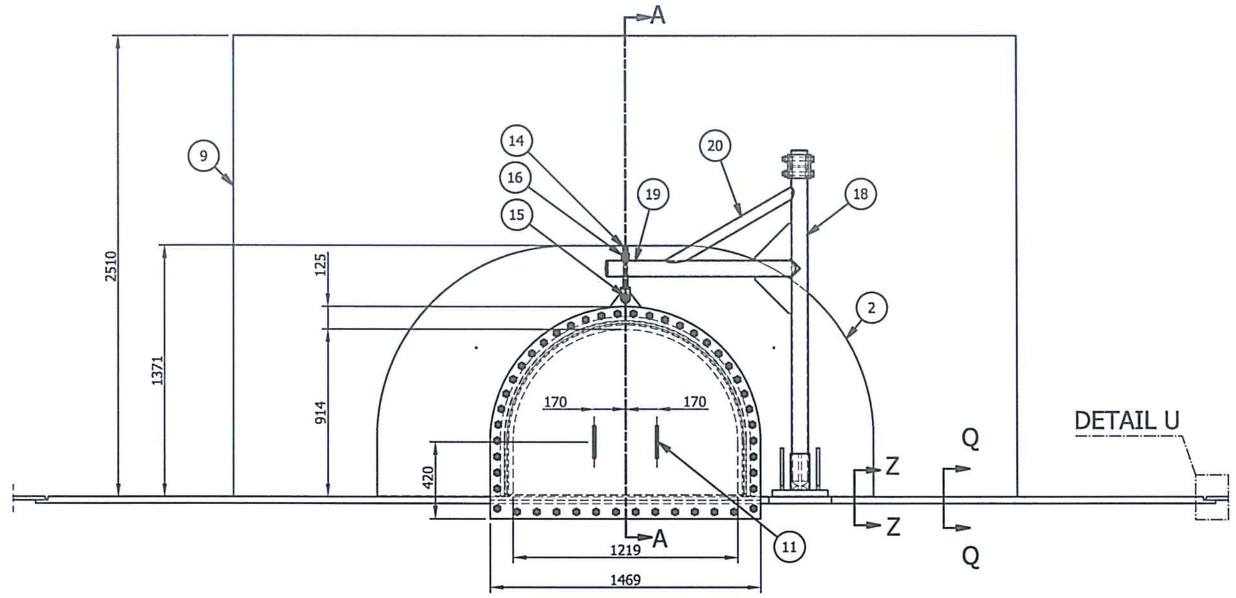
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

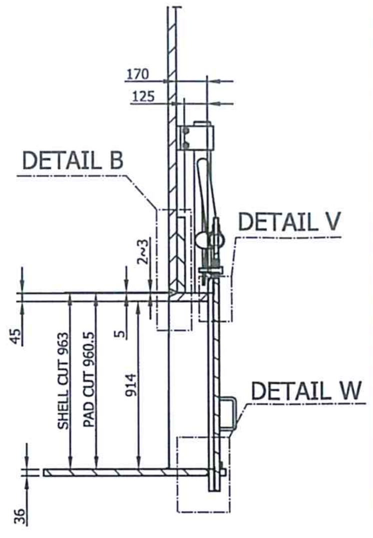
TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Arrangement of Cleanout Door

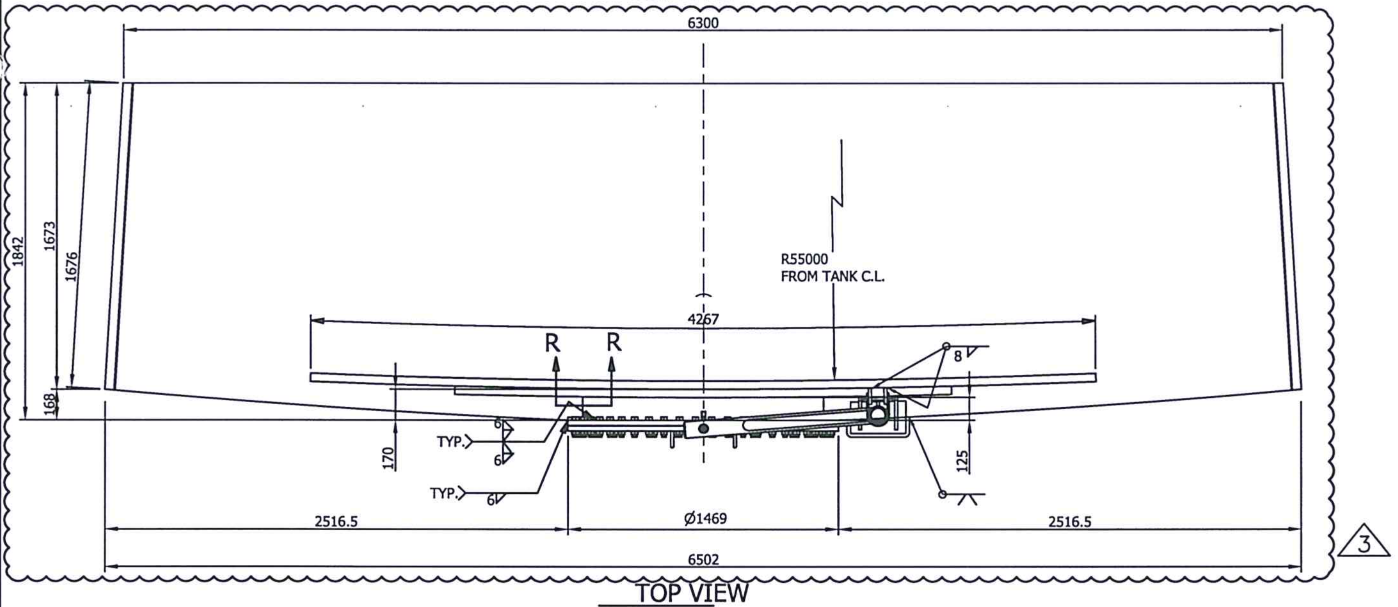
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-003	1 OF 2	3



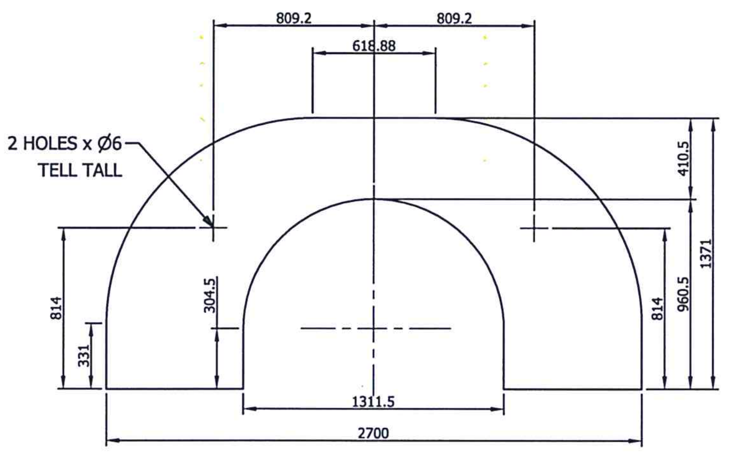
ELEVATION VIEW
SCALE 1 : 28



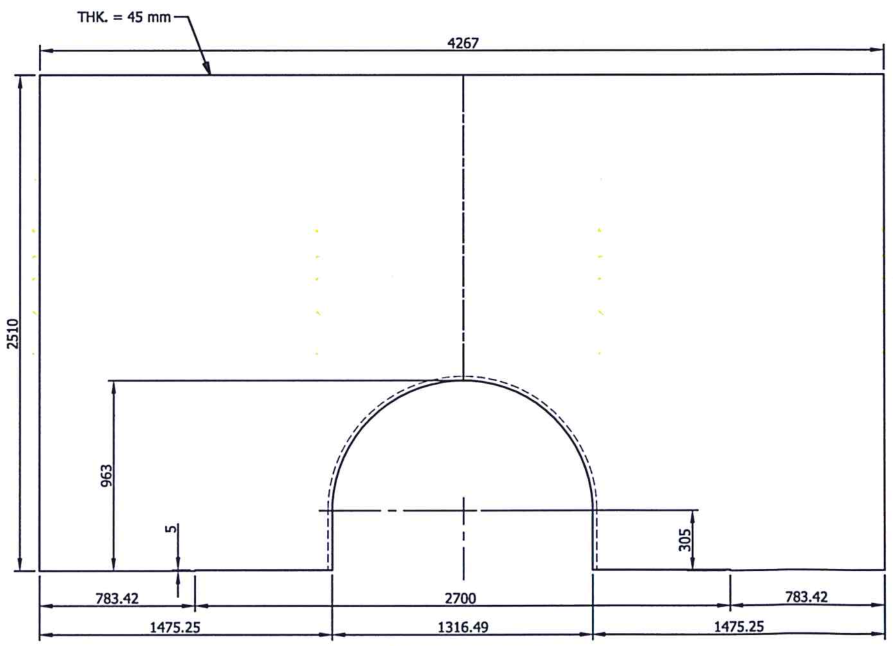
SECTION A-A
SCALE (1 : 28)



TOP VIEW
SCALE (1 : 28)



REINFORCING PLATE



SHELL PLATE
SCALE 1 : 26
ITEM NO. 9

BILL OF MATERIAL				
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33	PL. 200 x 54 x 19	ASTM A537 CL 2	1	1.62
34	PL. 230 x 187 x 19	ASTM A537 CL 2	2	12.83
35	CAP BEARING Ø89 x 25	A283 GR C	2	0.67

TOTAL WEIGHT = 8317.22 kg

GENERAL NOTES:—

1. THIS DRAWING IS FOR FABRICATION ONLY. FOR CLEANOUT DOOR LOCATION REFER TO TANK ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-002 & 003.
2. FOR GENERAL NOTES REFER TO DWG. NO. 1251-100-116-02-XX-B01-001.
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8. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-004 & 1251-100-116-02-XX-D01-005.
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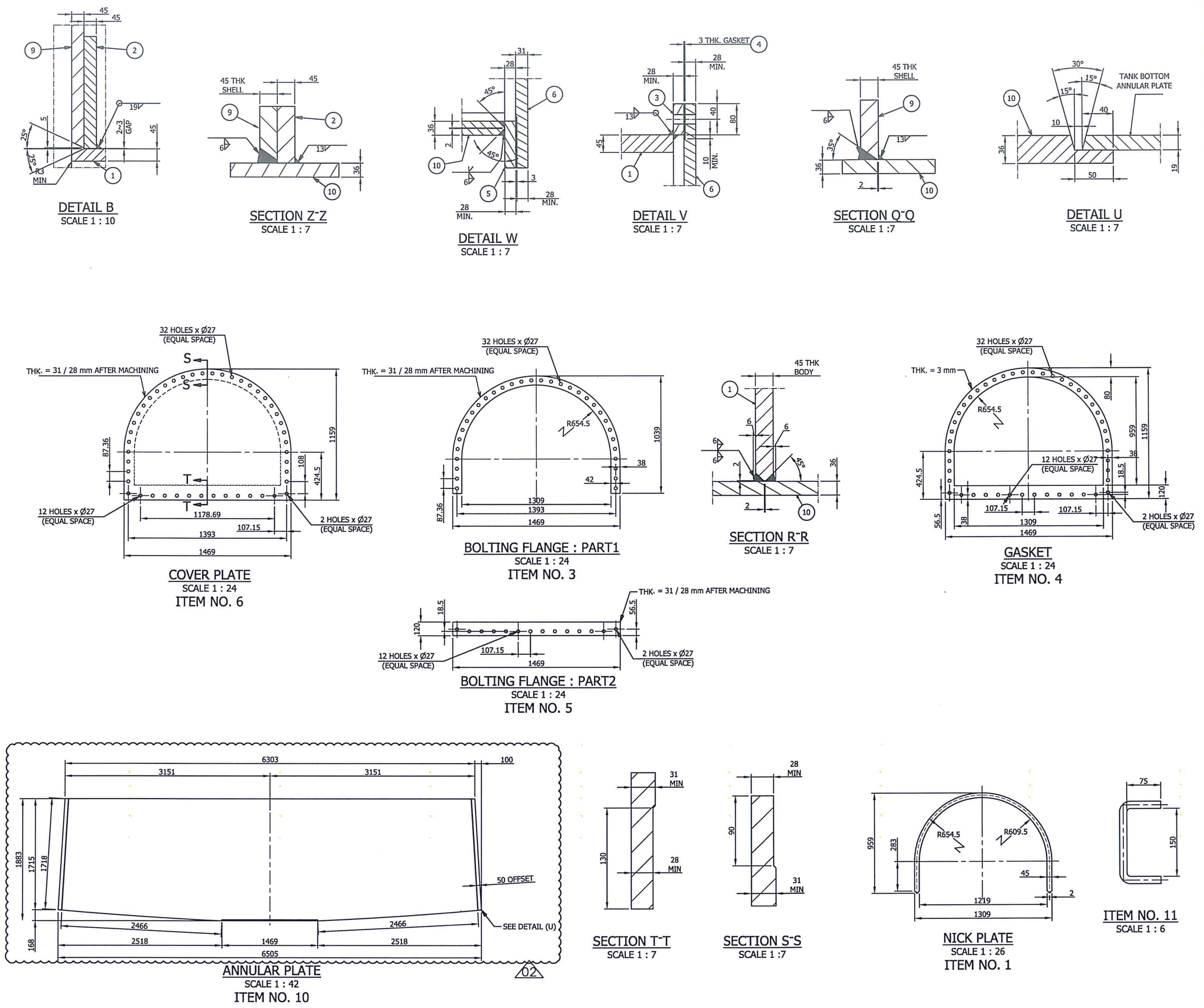
PROJECT	CRUDE OIL TANK FARM
AT	RAS BADRAN MOD.3
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 022-T-01/02/03/04

Arrangement of Cleanout Door

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-003	SHEET No. 2 OF 2	REVISION 3



GENERAL NOTES:-

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-005.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	19/5/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
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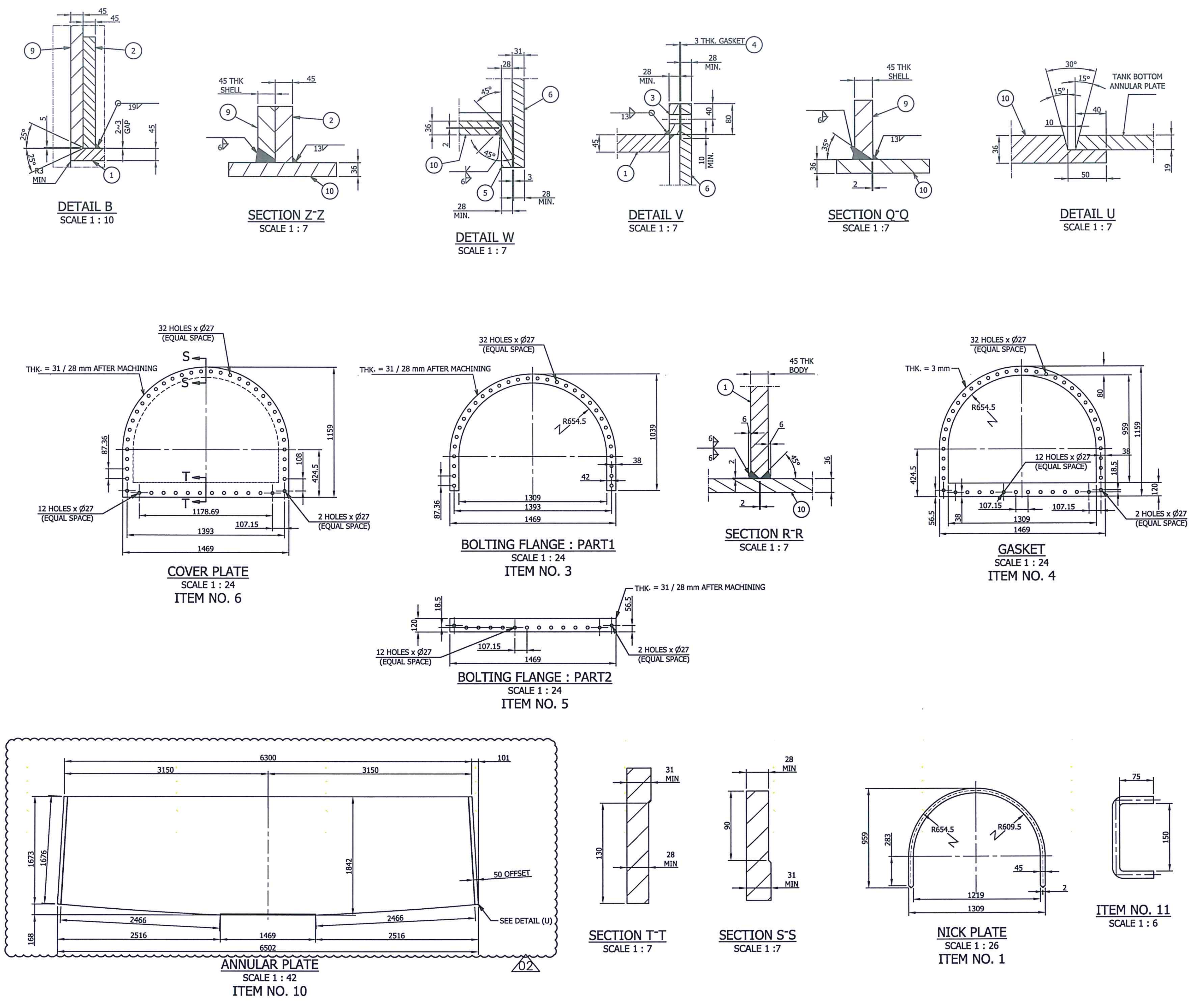
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Cleanout Door

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-004	1 OF 2	01



GENERAL NOTES:-

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-005.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	19/5/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
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0	29/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

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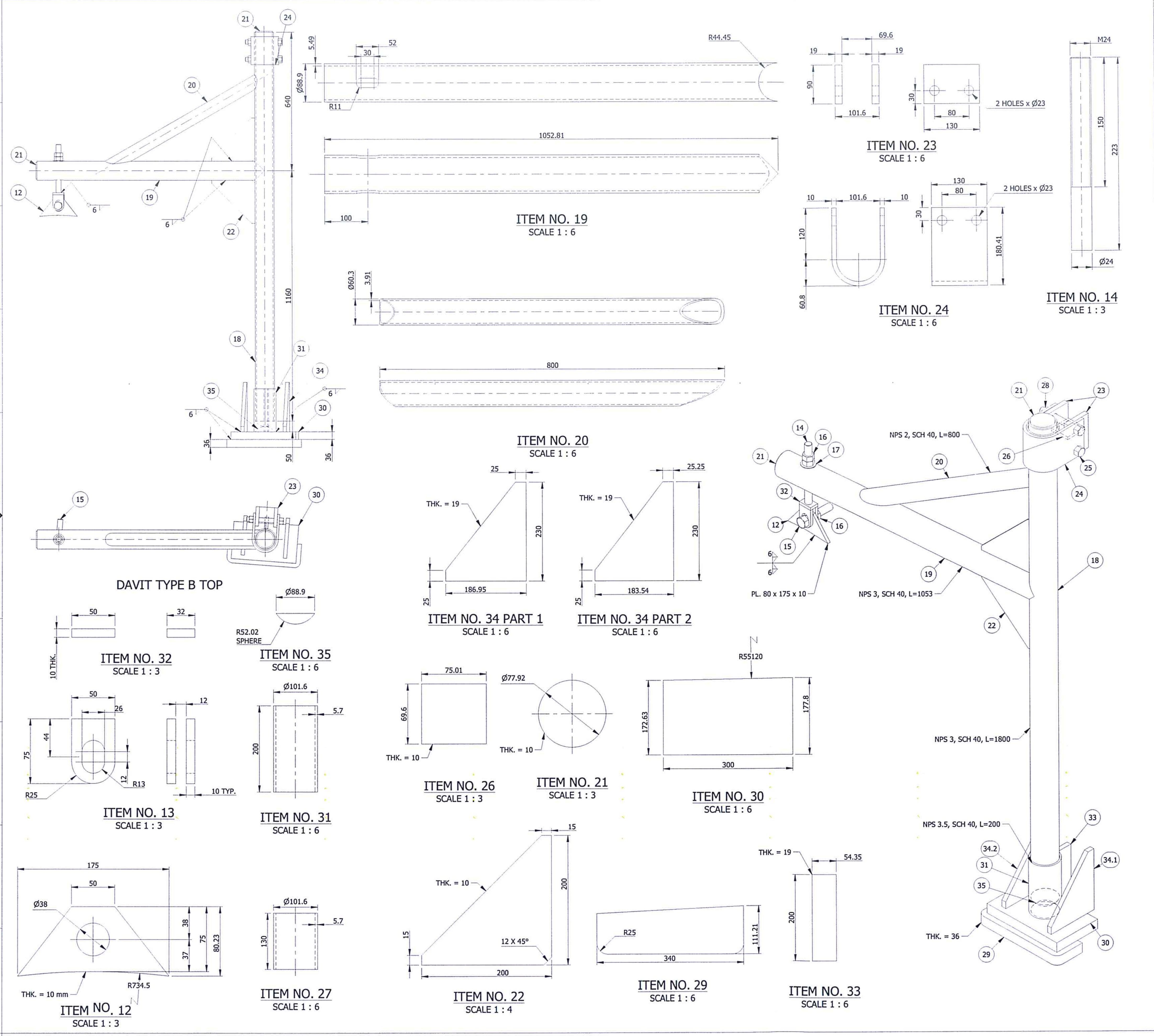
PROJECT	CRUDE OIL TANK FARM
AT	RAS BADRAN MOD.3
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 022-T-01/02/03/04

Details of Cleanout Door

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-004	2 OF 2	01



GENERAL NOTES:-

1. THIS DRAWING IS FOR FABRICATION ONLY. FOR CLEANOUT DOOR LOCATION REFER TO TANK ORIENTATION DWG NO. 1251-100-116-02-XX-B01-002 & 003.
2. FOR GENERAL NOTES REFER TO DWG NO. 1251-100-116-02-XX-B01-001
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004
4. FOR DAVIT BILL OF MATERIAL REFER TO DRAWING NO 1251-100-116-02-XX-D01-003
5. FOR SURFACE PREPARATION REFER TO G.A. DWG NO 1251-100-116-02-XX-B01-001

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
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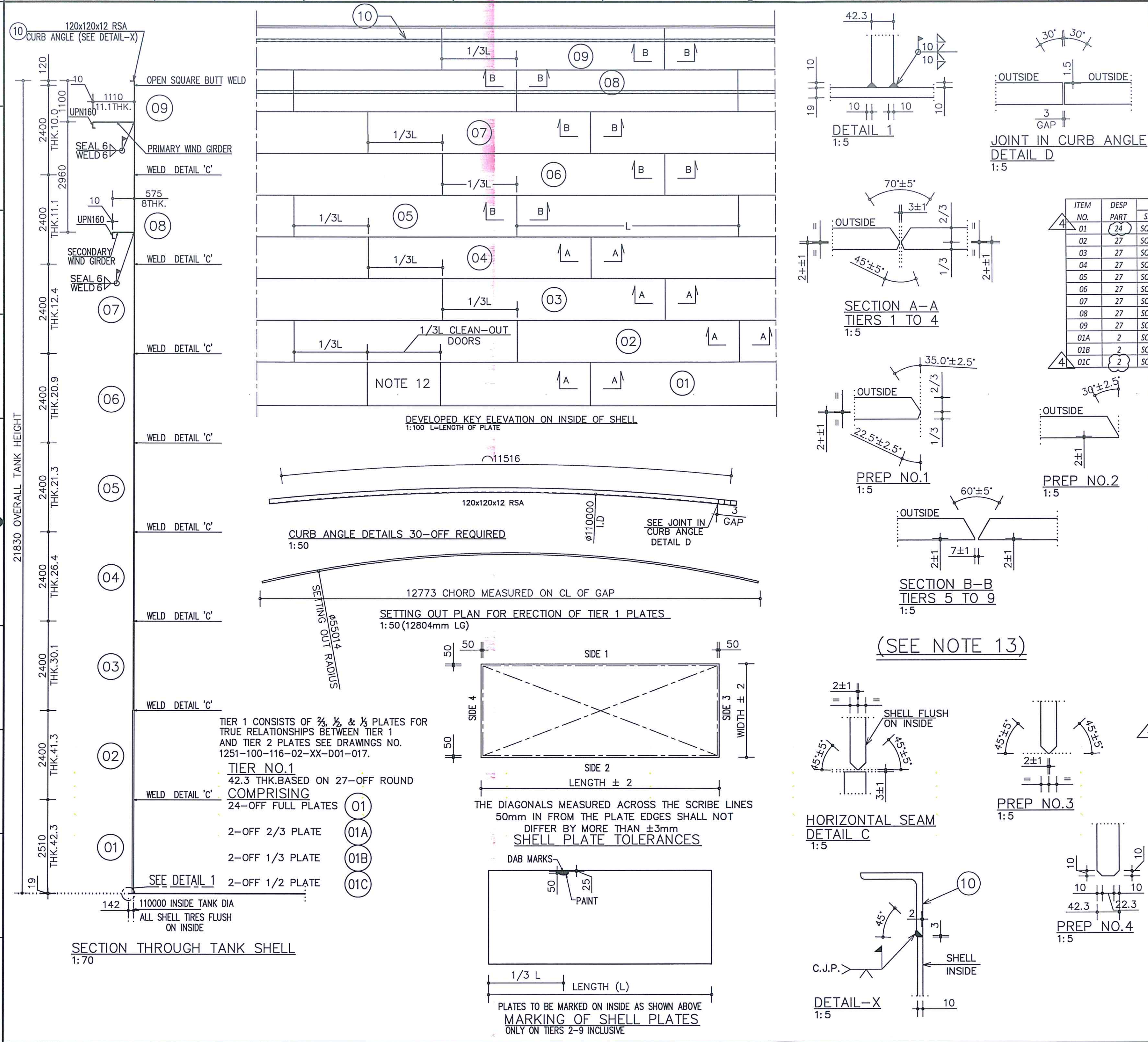
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Cleanout Door Davit

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-005	SHEET No. 1 OF 1	REVISION 2



BILL OF MATERIAL

PARTS LIST (FOR 1-OFF TANK)				
ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	23	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 12804
01A	2	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 8536
01B	-	2	ASTM '537 CL 2	SHELL PLATE 2510 x 45 x 4268
01C	4	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 6402
02	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 41.3 x 12804
03	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 30.1 x 12803
04	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 26.4x 12802
05	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 21.3 x 12802
06	27	-	ASTM '537 CL 1	SHELL PLATE 2400 x 20.9x 12802
07	27	-	ASTM '537 CL 1	SHELL PLATE 2400 x 12.4 x 12801
08	27	-	ASTM '283 GR C	SHELL PLATE 2400 x 11.1 x 12801
09	27	-	ASTM '283 GR C	SHELL PLATE 2400 x 10.0x 12800
10	30	-	ST. 44-2	CLUB ANGLE:120x120x12RSA x11516 LG ROLLED TO 55000 RADIUS TOE~OUT
29-OFF TANKS REQUIRED				

ITEM NO.	DESP PART	EDGE PREPARATION				ROLLING		ENDSET	FINISHED	FINISHED
		SIDE 1	SIDE 2	SIDE 3	SIDE 4	YES/NO	RADIUS	YES/NO	LENGTH	WIDTH
01	24	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	12804	2510
02	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12804	2400
03	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12803	2400
04	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12802	2400
05	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12802	2400
06	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12802	2400
07	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12801	2400
08	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12801	2400
09	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12800	2400
01A	2	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	8536	2510
01B	2	SQUARE	NOTE 5	PREP NO.1	PREP NO.1	YES	55000	YES	4268	2510
01C	2	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	6402	2510

GENERAL NOTES:-

1. ALL SHELL PLATE SIZES LISTED ARE FINISHED SIZES
2. FOR ORIENTATION OF SHELL VERTICAL SEAMS SEE TANK ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-002.
3. LENGTHS OF CURB ANGLE DON'T INCLUDE ANY BREAKING OR TRIMMING ALLOWANCE.
4. 2-OFF TIER 1 PLATE ITEM NO. 1B ARE FOR CLEAN OUT DOORS SEE DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004.
5. BOTTOM EDGE OF CLEAN OUT DOOR SHELL PLATES TO BE PREPPED SQUARE INTIALLY. BOTTOM EDGE TO THEN BE PREPPED ALL AS PER DETAILS ON CLEAN OUT DOOR DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004.
6. DESIGN CODE - API 650 12TH EDITION ADDENDUM 3.
7. IMPACT TEST REQ'D AS PER API650.
8. FOR PRIMARY AND SECONDRY WIND GIRDER DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-007/008/009/010.
9. FOR SURFACE PREPARATION REFER TO GA NO. 01251-100-116-02-XX-B01-001
10. PETROJET SHALL MAINTAIN TANK SHELL SAFE FROM WIND LOADS DURING TANK ERECTION (TANK SHELL COURSES FIT-UP).
11. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA. 5.7.4.3 IN API 650.
12. FOR 01A, 01B & 01C ORIENTATION SEE SHELL ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-003.
13. THESE VERTICAL SHELL JOINT WELDING DETAILS APPLICABLE FOR TANKS WHICH WILL BE CONSTRUCTED USING JACKING SYSTEM AND WILL BE WELDED FCAW (FLUX CORED ARC WELDING).
14. For FLUX CORED ARC WELDING (FCAW) process to be stick to requirements in Project Specification 01251-100-100-076.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	14/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
3	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

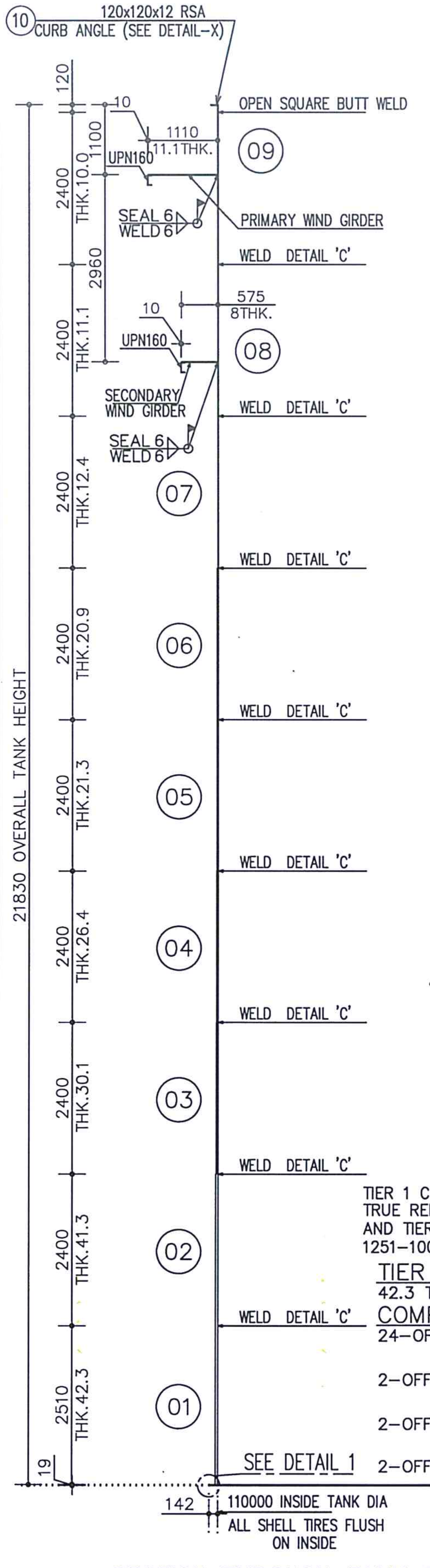
CLIENT: EGPC

CRUDE OIL STORAGE TANK

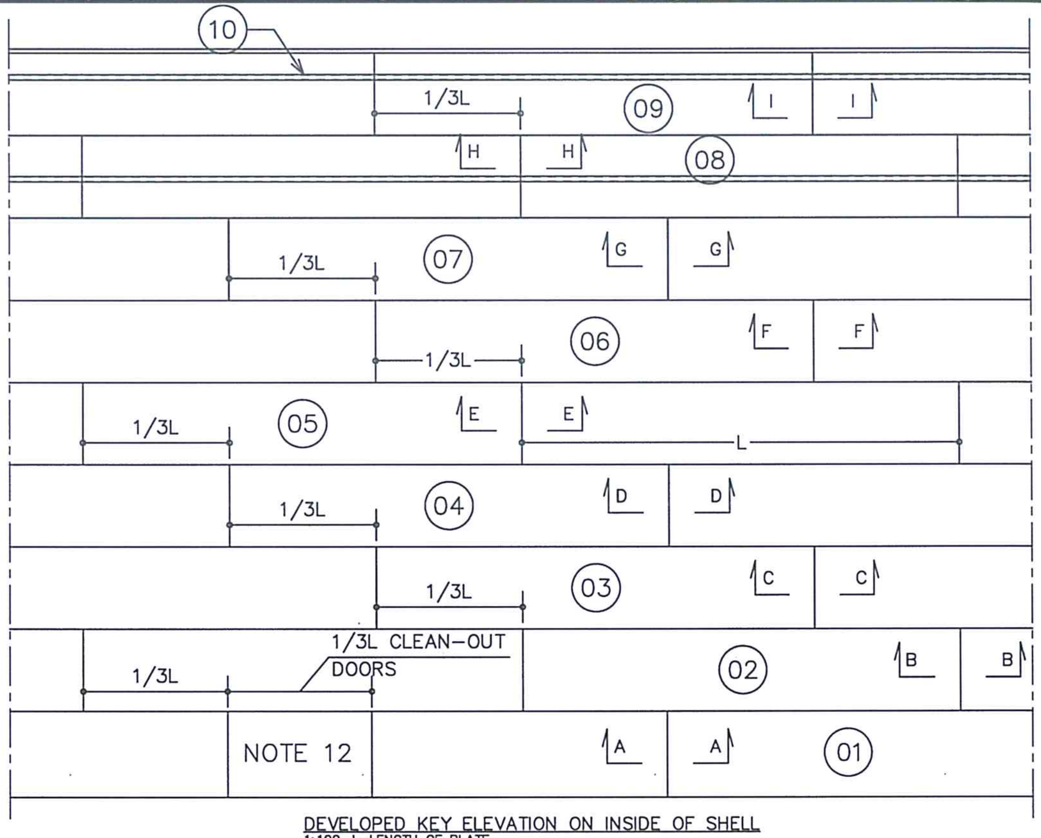
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Shell Plates

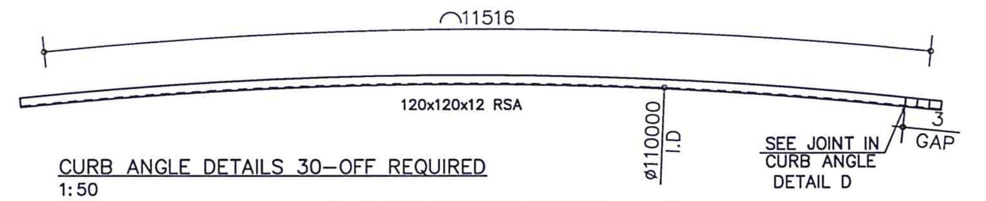
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FORMAT: A2	1251-100-116-02-XX-D01-006	1 OF 2	3



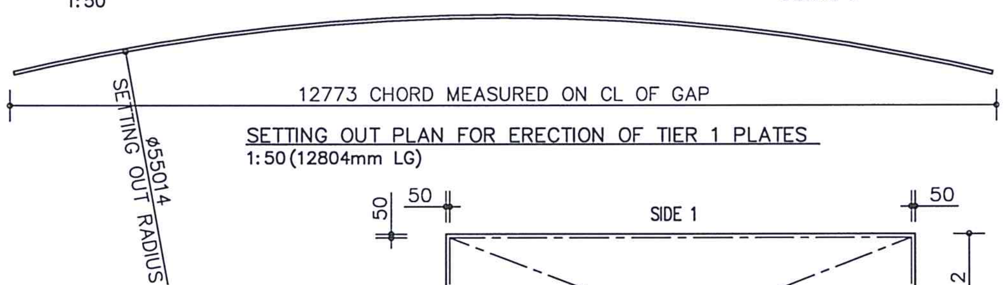
SECTION THROUGH TANK SHELL
1:70



DEVELOPED KEY ELEVATION ON INSIDE OF SHELL
1:100 L=LENGTH OF PLATE



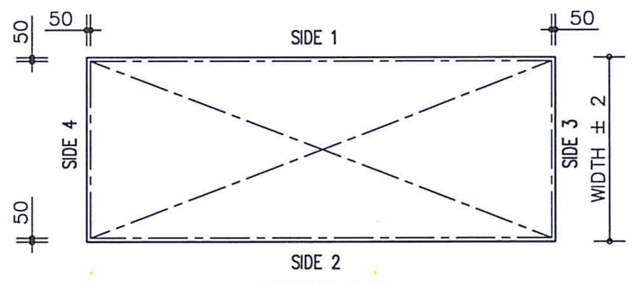
CURB ANGLE DETAILS 30-OFF REQUIRED
1:50



SETTING OUT PLAN FOR ERECTION OF TIER 1 PLATES
1:50 (12804mm LG)

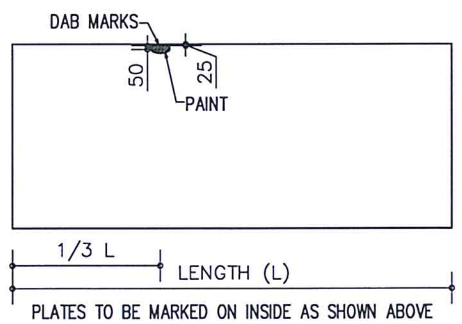
TIER 1 CONSISTS OF ⅔, ½, & ⅓ PLATES FOR TRUE RELATIONSHIPS BETWEEN TIER 1 AND TIER 2 PLATES SEE DRAWINGS NO. 1251-100-116-02-XX-D01-017.

TIER NO.1
42.3 THK.BASED ON 27-OFF ROUND
COMPRISING
24-OFF FULL PLATES (01)
2-OFF 2/3 PLATE (01A)
2-OFF 1/3 PLATE (01B)
2-OFF 1/2 PLATE (01C)



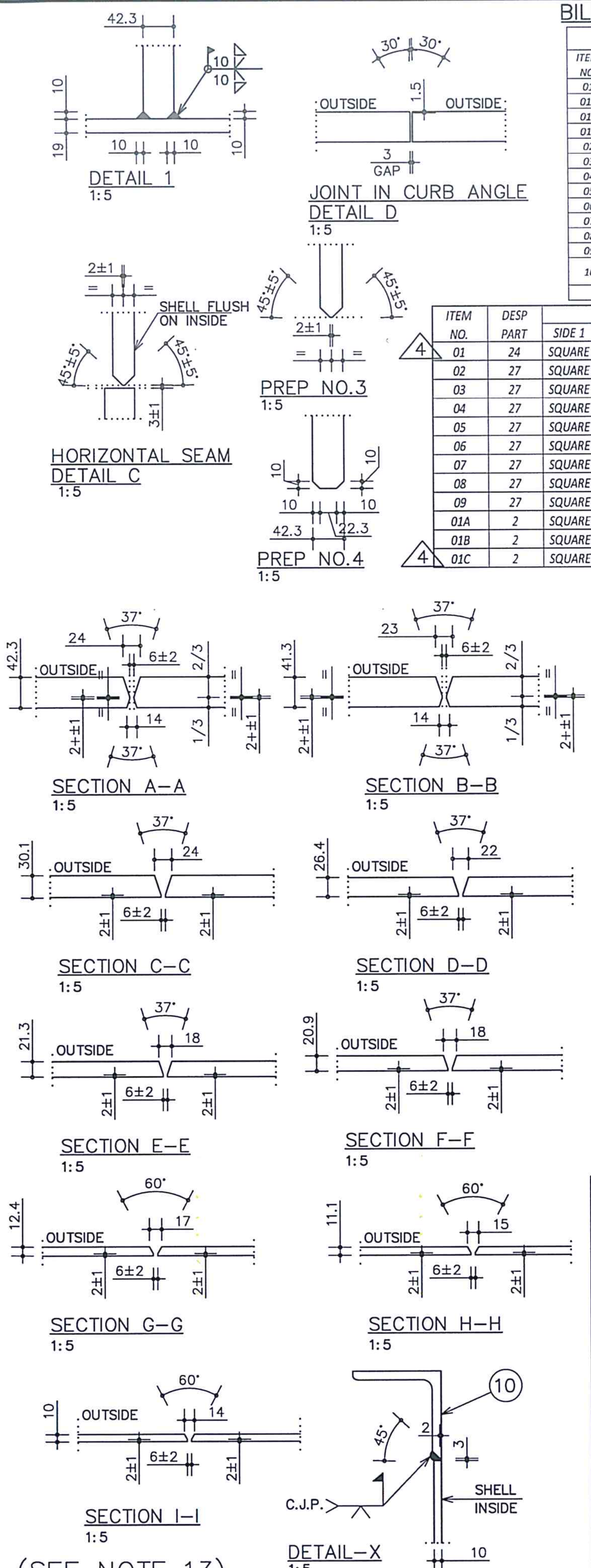
THE DIAGONALS MEASURED ACROSS THE SCRIBE LINES 50mm IN FROM THE PLATE EDGES SHALL NOT DIFFER BY MORE THAN ±3mm

SHELL PLATE TOLERANCES



PLATES TO BE MARKED ON INSIDE AS SHOWN ABOVE

MARKING OF SHELL PLATES
ONLY ON TIERS 2-9 INCLUSIVE



DETAIL 1 1:5

JOINT IN CURB ANGLE DETAIL D 1:5

HORIZONTAL SEAM DETAIL C 1:5

PREP NO.3 1:5

PREP NO.4 1:5

SECTION A-A 1:5

SECTION B-B 1:5

SECTION C-C 1:5

SECTION D-D 1:5

SECTION E-E 1:5

SECTION F-F 1:5

SECTION G-G 1:5

SECTION H-H 1:5

SECTION I-I 1:5

DETAIL-X 1:5

(SEE NOTE 13)

BILL OF MATERIAL

PARTS LIST (FOR 1-OFF TANK)				
ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	23	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 12804
01A	2	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 8536
01B	-	2	ASTM '537 CL 2	SHELL PLATE 2510 x 45 x 4268
01C	4	-	ASTM '537 CL 2	SHELL PLATE 2510 x 42.3 x 6402
02	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 41.3 x 12804
03	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 30.1 x 12803
04	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 26.4x 12802
05	27	-	ASTM '537 CL 2	SHELL PLATE 2400 x 21.3 x 12802
06	27	-	ASTM '537 CL 1	SHELL PLATE 2400 x 20.9x 12802
07	27	-	ASTM '537 CL 1	SHELL PLATE 2400 x 12.4 x 12801
08	27	-	ASTM '283 GR C	SHELL PLATE 2400 x 11.1 x 12801
09	27	-	ASTM '283 GR C	SHELL PLATE 2400 x 10.0x 12800
10	30	-	ST. 44-2	CLUB ANGLE:120x120x12RSA x11516 LG ROLLED TO 55000 RADIUS TOE~OUT
29-OFF TANKS REQUIRED				

ITEM NO.	DESP PART	EDGE PREPARATION				ROLLING		ENDSET	FINISHED	FINISHED
		SIDE 1	SIDE 2	SIDE 3	SIDE 4	YES/NO	RADIUS	YES/NO	LENGTH	WIDTH
01	24	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	12804	2510
02	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12804	2400
03	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12803	2400
04	27	SQUARE	PREP NO.3	PREP NO.1	PREP NO.1	YES	61875	YES	12802	2400
05	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12802	2400
06	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12802	2400
07	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12801	2400
08	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12801	2400
09	27	SQUARE	PREP NO.3	PREP NO.2	PREP NO.2	YES	61875	YES	12800	2400
01A	2	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	8536	2510
01B	2	SQUARE	NOTE 5	PREP NO.1	PREP NO.1	YES	55000	YES	4268	2510
01C	2	SQUARE	PREP NO.4	PREP NO.1	PREP NO.1	YES	61875	YES	6402	2510

GENERAL NOTES:-

1. ALL SHELL PLATE SIZES LISTED ARE FINISHED SIZES
2. FOR ORIENTATION OF SHELL VERTICAL SEAMS SEE TANK ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-002.
3. LENGTHS OF CURB ANGLE DON'T INCLUDE ANY BREAKING OR TRIMMING ALLOWANCE.
4. 2-OFF TIER 1 PLATE ITEM NO. 1B ARE FOR CLEAN OUT DOORS SEE DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004.
5. BOTTOM EDGE OF CLEAN OUT DOOR SHELL PLATES TO BE PREPPED SQUARE INTIALLY. BOTTOM EDGE TO THEN BE PREPPED ALL AS PER DETAILS ON CLEAN OUT DOOR DWG. NO. 1251-100-116-02-XX-D01-003 & 1251-100-116-02-XX-D01-004.
6. DESIGN CODE - API 650 12TH EDITION ADDENDUM 3.
7. IMPACT TEST REQ'D AS PER API650.
8. FOR PRIMARY AND SECONDRY WIND GIRDER DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-007/008/009/010.
9. FOR SURFACE PREPARATION REFER TO GA NO. 01251-100-116-02-XX-B01-001
10. PETROJET SHALL MAINTAIN TANK SHELL SAFE FROM WIND LOADS DURING TANK ERECTION (TANK SHELL COURSES FIT-UP).
11. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA. 5.7.4.3 IN API 650.
12. FOR 01A, 01B & 01C ORIENTATION SEE SHELL ORIENTATION DWG. NO. 1251-100-116-02-XX-B01-003.
13. THESE VERTICAL SHELL JOINT WELDING DETAILS APPLICABLE FOR TANKS WHICH WILL BE CONSTRUCTED USING AUTOMATIC WELD MACHINE EGW (ELECTRO GAS WELDING).

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	14/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
3	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

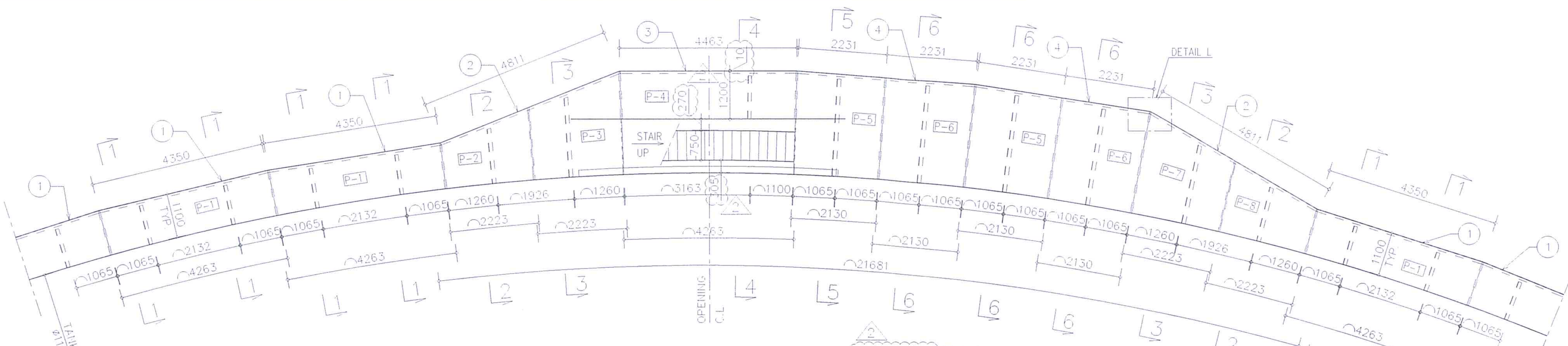
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

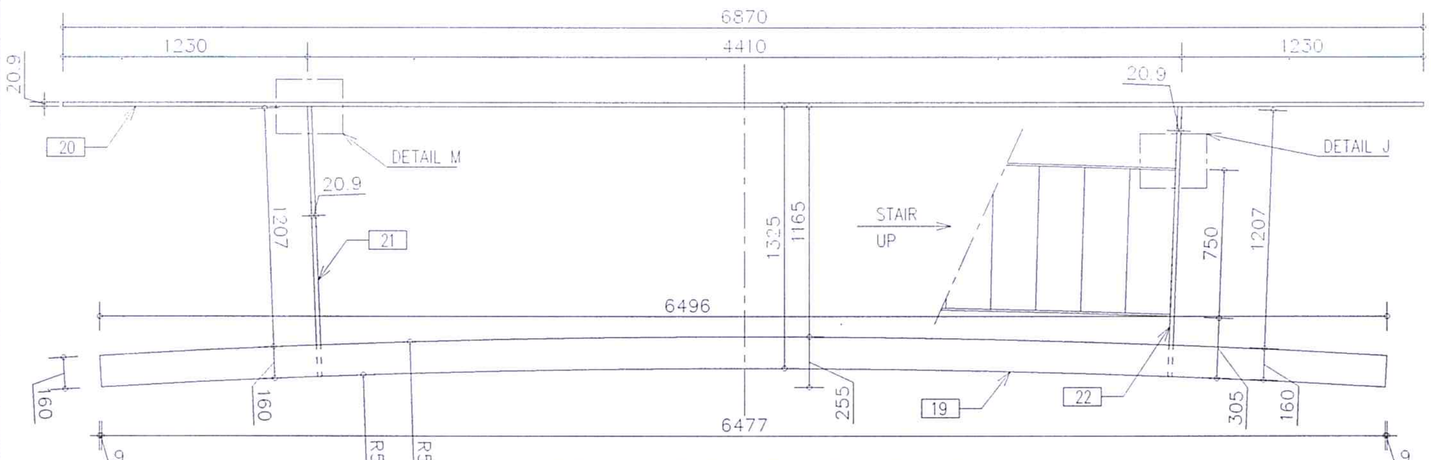
Details of Shell Plates

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-006 | SHEET No. 2 OF 2 | REVISION 3

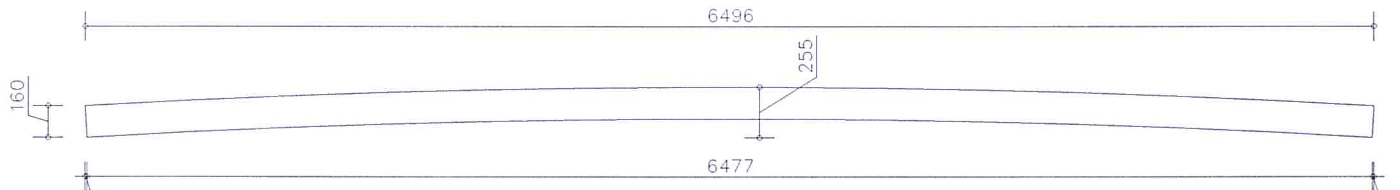


PLAN OF PRIMARY WIND GIRDER @ EL.+20749 T.O.S.
1:100

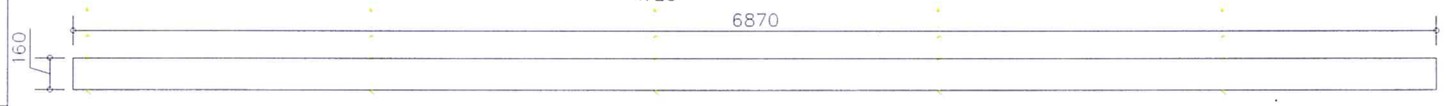
BILL OF MATERIALS						
ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH	QTY.	WIEGHT
1	CHANNEL	UPN160	ST44	4350	76	6215.28
2	CHANNEL	UPN160	ST44	4811	2	180.89
3	CHANNEL	UPN160	ST44	4463	1	83.90
4	CHANNEL	UPN160	ST44	4462	2	167.77
5	ANGLE	L90x90x9	ST44	995	152	1845.13
6	ANGLE	L90x90x9	ST44	1298	152	2407.01
7	ANGLE	L100x100x10	ST44	1382	2	41.74
8	ANGLE	L100x100x10	ST44	1834	2	55.39
9	ANGLE	L100x100x10	ST44	1998	2	60.34
10	ANGLE	L100x100x10	ST44	2704	2	81.66
11	ANGLE	L100x100x10	ST44	1064	1	16.07
12	ANGLE	L100x100x10	ST44	3296	5	248.85
13	ANGLE	L100x100x10	ST44	1420	1	21.44
14	ANGLE	L100x100x10	ST44	980	1	14.80
15	ANGLE	L100x100x10	ST44	2421	3	109.67
16	ANGLE	L150x150x15	ST44	300	161	1526.28
17	BACK STRIP	PL.50x5	A283 GR.C	98220		192.76
18	PLATE	9425x2400x11.1	A283 GR.C		22	43361.86
19	PLATE	6496x160x20.9	A537 CL.1		1	170.52
20	PLATE	6870x160x20.9	A537 CL.1		1	180.34
21	PLATE	1367x160x20.9	A537 CL.1		1	35.88
22	PLATE	1367x160x20.9	A537 CL.1		1	35.88
TOTAL WIEGHT						57053.47



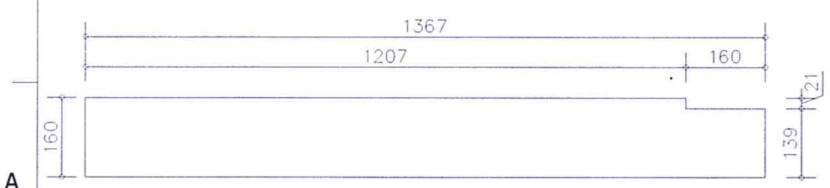
DETAIL OF FRAME AT OPENING
1:25



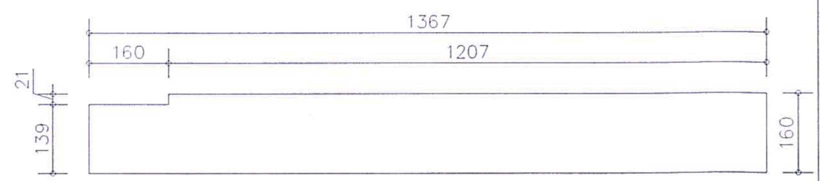
ITEM 19
(1-NO. REQ.)
1:25



ITEM 20
(1-NO. REQ.)
1:25



ITEM 21
(1-NO. REQ.)
1:10



ITEM 22
(1-NO. REQ.)
1:10

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. THIS DRAWING IS FOR FABRICATION ONLY. FOR PRIMARY WIND GIRDER ORIENTATION REFER TO ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
3. FOR SECONDARY WIND GIRDER ARRANGEMENT AND DETAILS REFER TO DRAWING NO. 1251-100-116-02-XX-D01-009 & 1251-100-116-02-XX-D01-010.
4. FOR PRIMARY WIND GIRDER HANDRAIL DETAILS REFER TO DRAWING NO. 1251-100-116-02-XX-D01-011.
5. ALL WELDS SHALL BE 6mm THICKNESS FILLET WELD, UNLESS OTHERWISE SPECIFIED.
6. ALL SHARP EDGES SHALL BE ROUND AND SMOOTH, ALL WELDING BURRS SHALL BE REMOVED.
7. TELL-TALE HOLE ON PAD PLATE TO BE SEAL WELDED AFTER PAD WELDING.
8. ANY ATTACHMENT WELDED TO SHELL SHALL BE THE SAME MATERIAL OF SHELL.
9. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-008.
10. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001.

LEGENDS

LG. - LONG
C.L. - CENTER LINE
E.L. - EARTHING LUG
CP.E.L. - CP EXTERNAL LUG
THK. - THICKNESS
S.M. - SETTLEMENT MARK
O.D. - OUTER DIAMETER
R. - RADIUS
T.O.B.A.P. - TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. - TOP OF BOTTOM SKETCH PLATE
C.J.P. - COMPLETE JOINT PENETRATION
A.N.J. - ANNULAR PLATE WELD JOINT
B.C.D. - ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. - BOTTOM PLATE WELD JOINT
TYP. - TYPICAL
DET. - DETAIL
NOS. - NUMBERS
W.P. - WORKING POINT
C.O.D. - CLEAN OUT DOOR
I.D. - INNER DIAMETER
EL. - ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

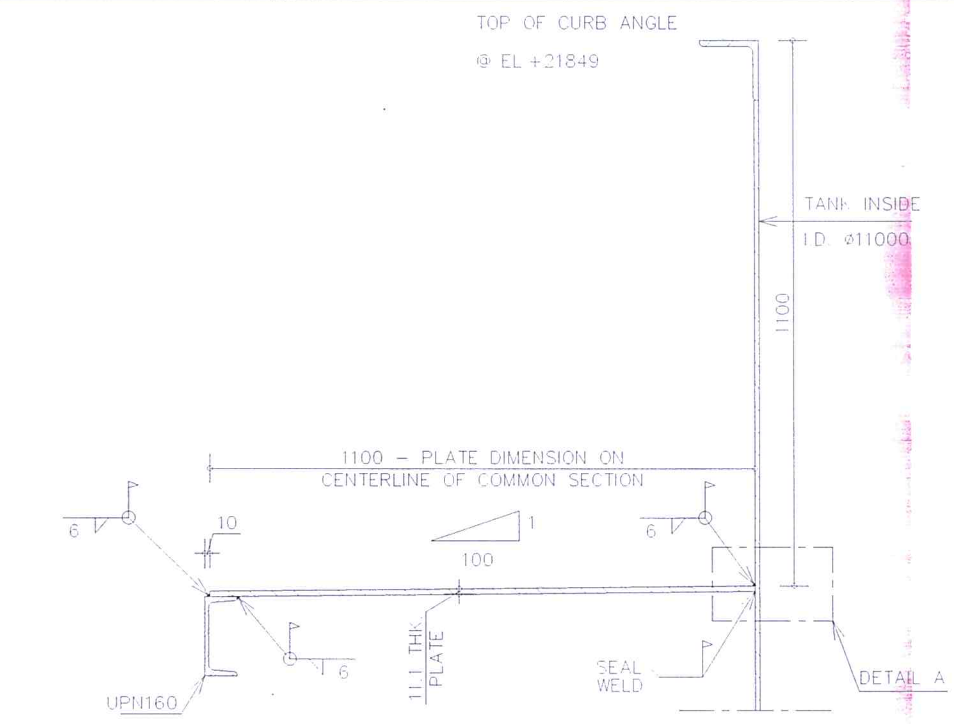
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

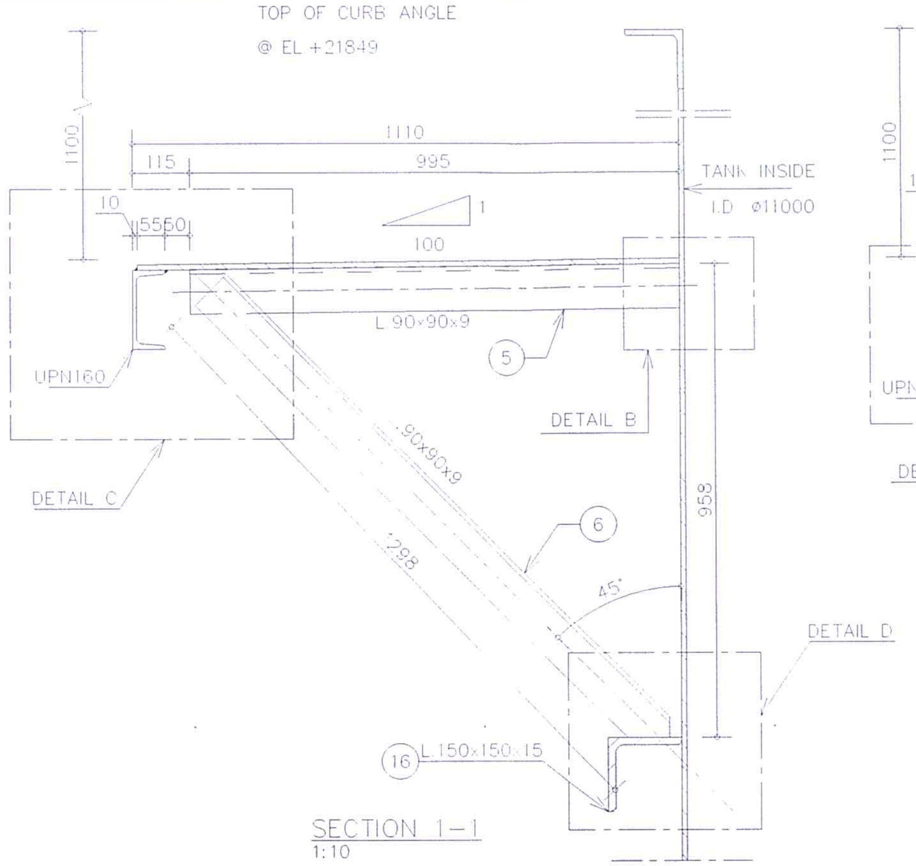
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Arrangement

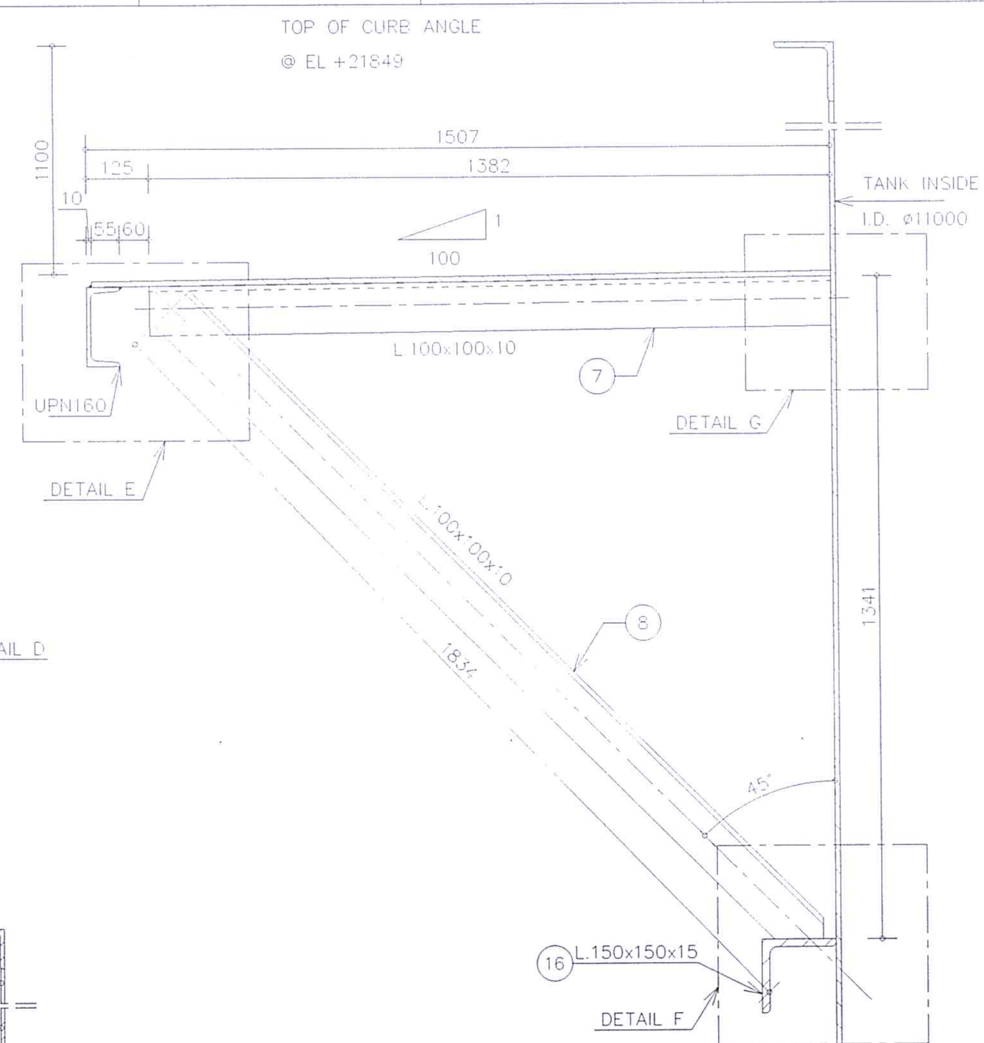
DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-007 | SHEET No. 1 OF 1 | REVISION 2



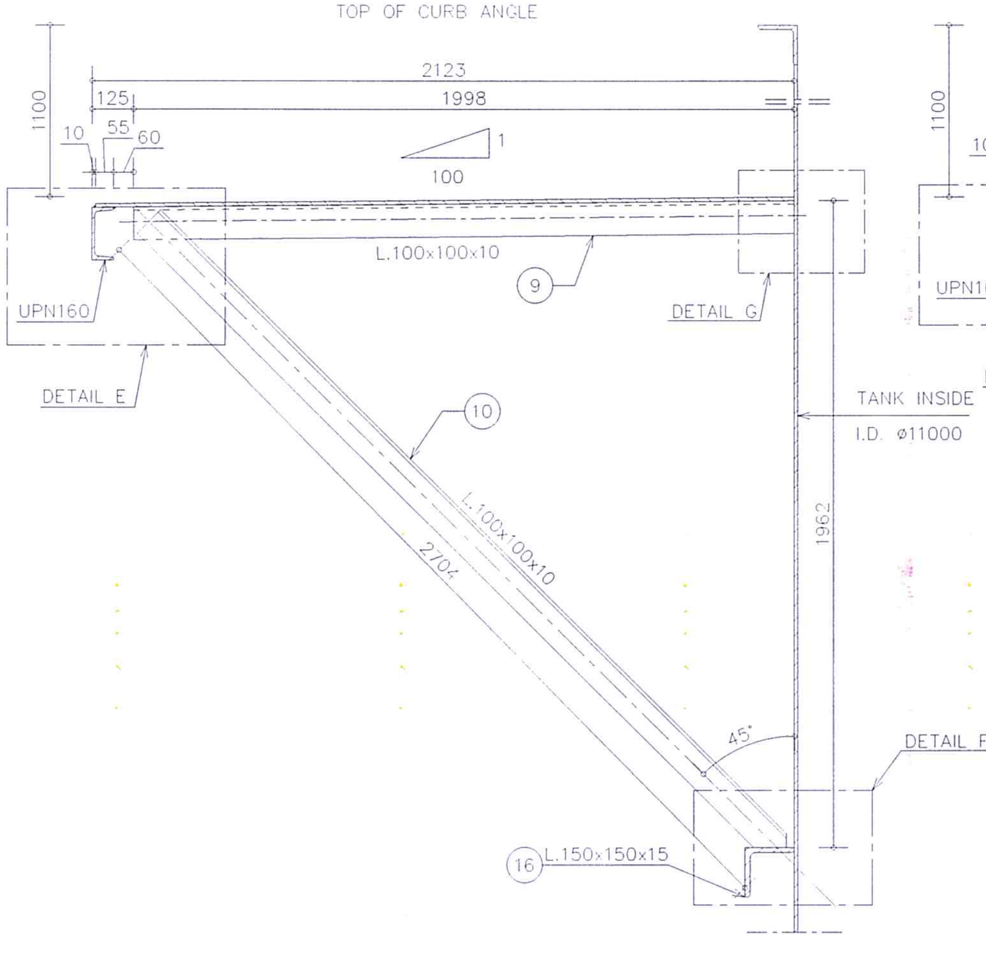
TYPICAL SECTION THROUGH WINDGIRDER
1:10



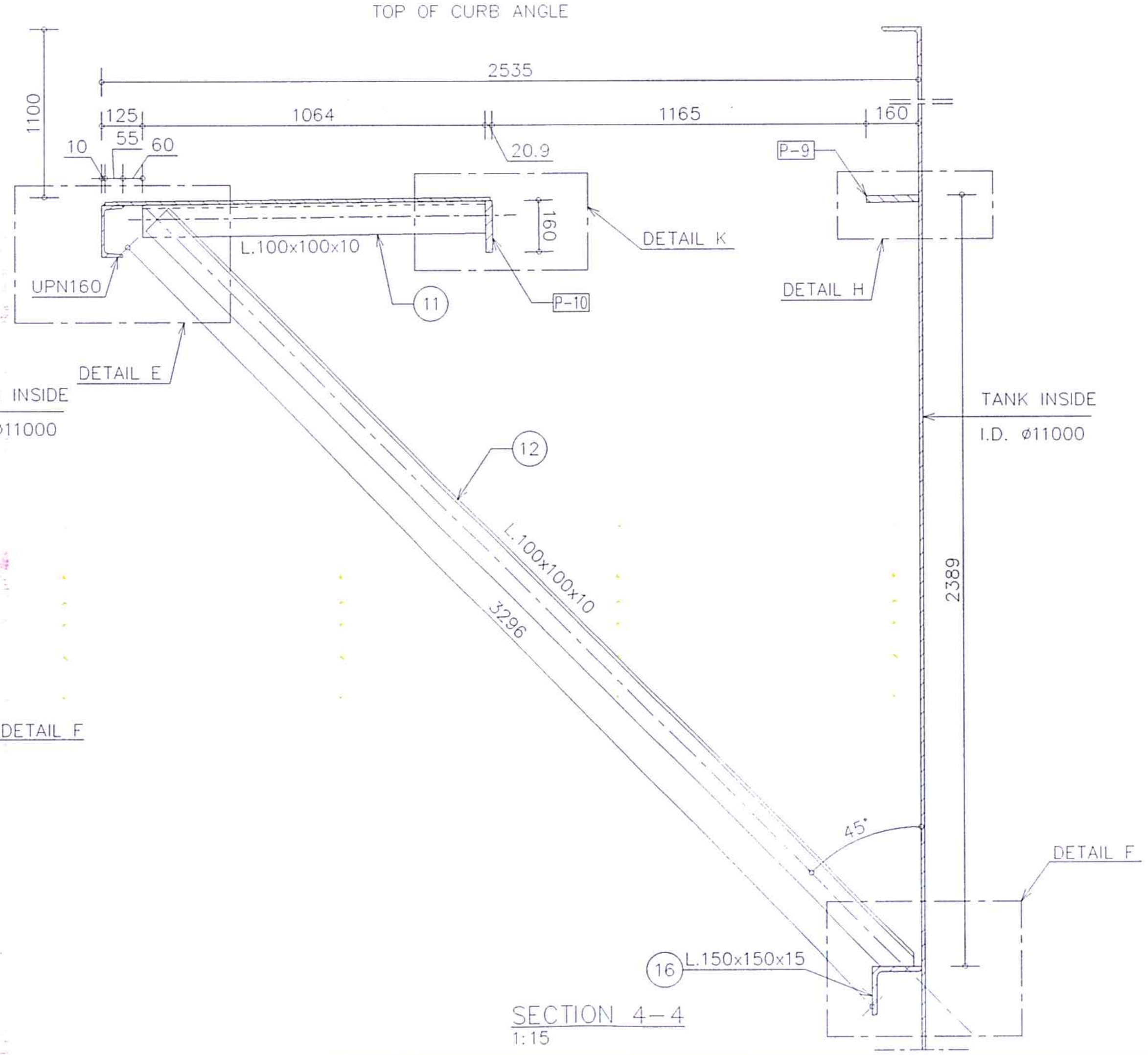
SECTION 1–1
1:10



SECTION 2–2
1:10



SECTION 3–3
1:15



SECTION 4–4
1:15

NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-D01-007.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	14/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

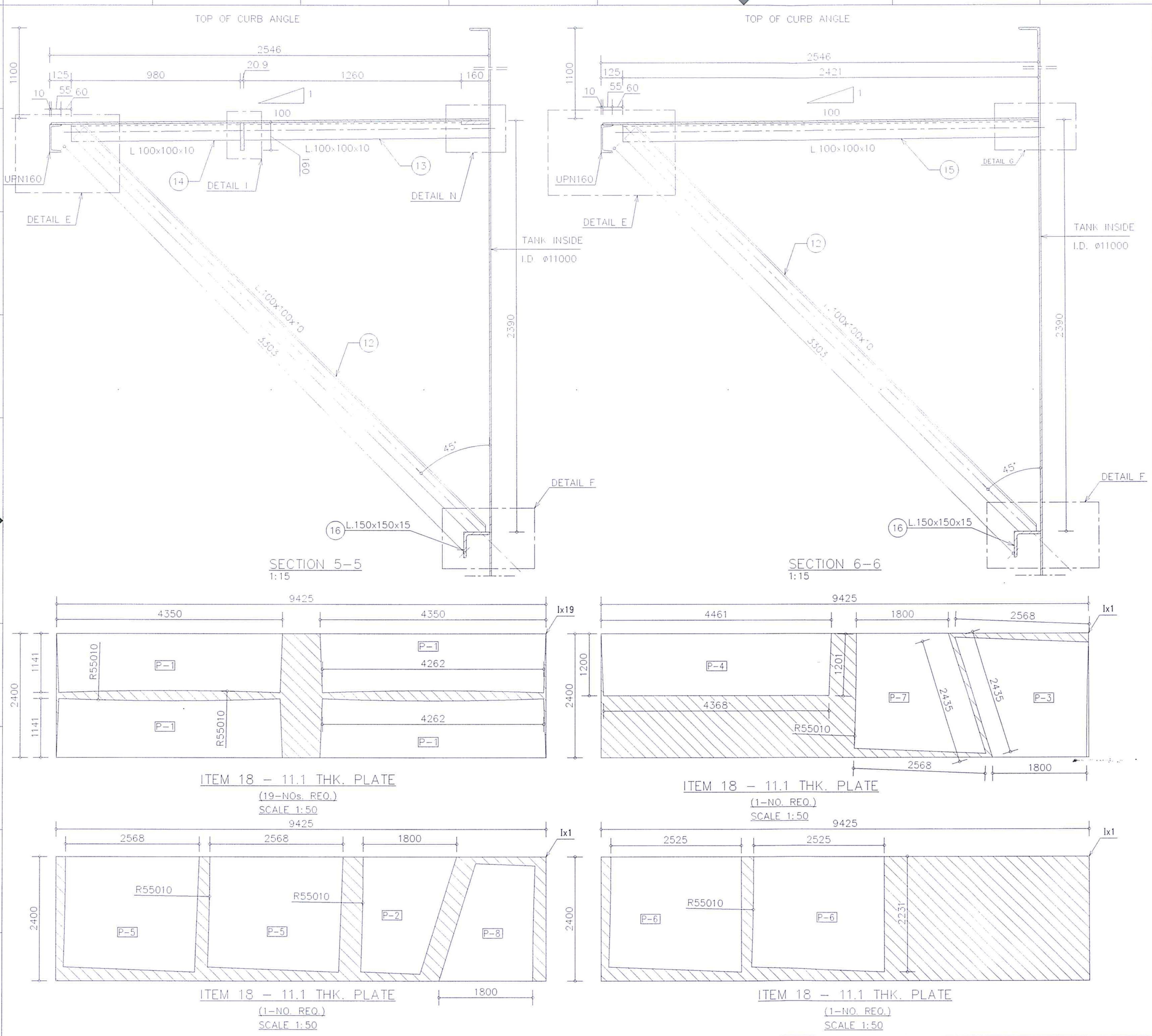
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Details

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-008	1 OF 4	3



LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
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TYP. – TYPICAL
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EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	14/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

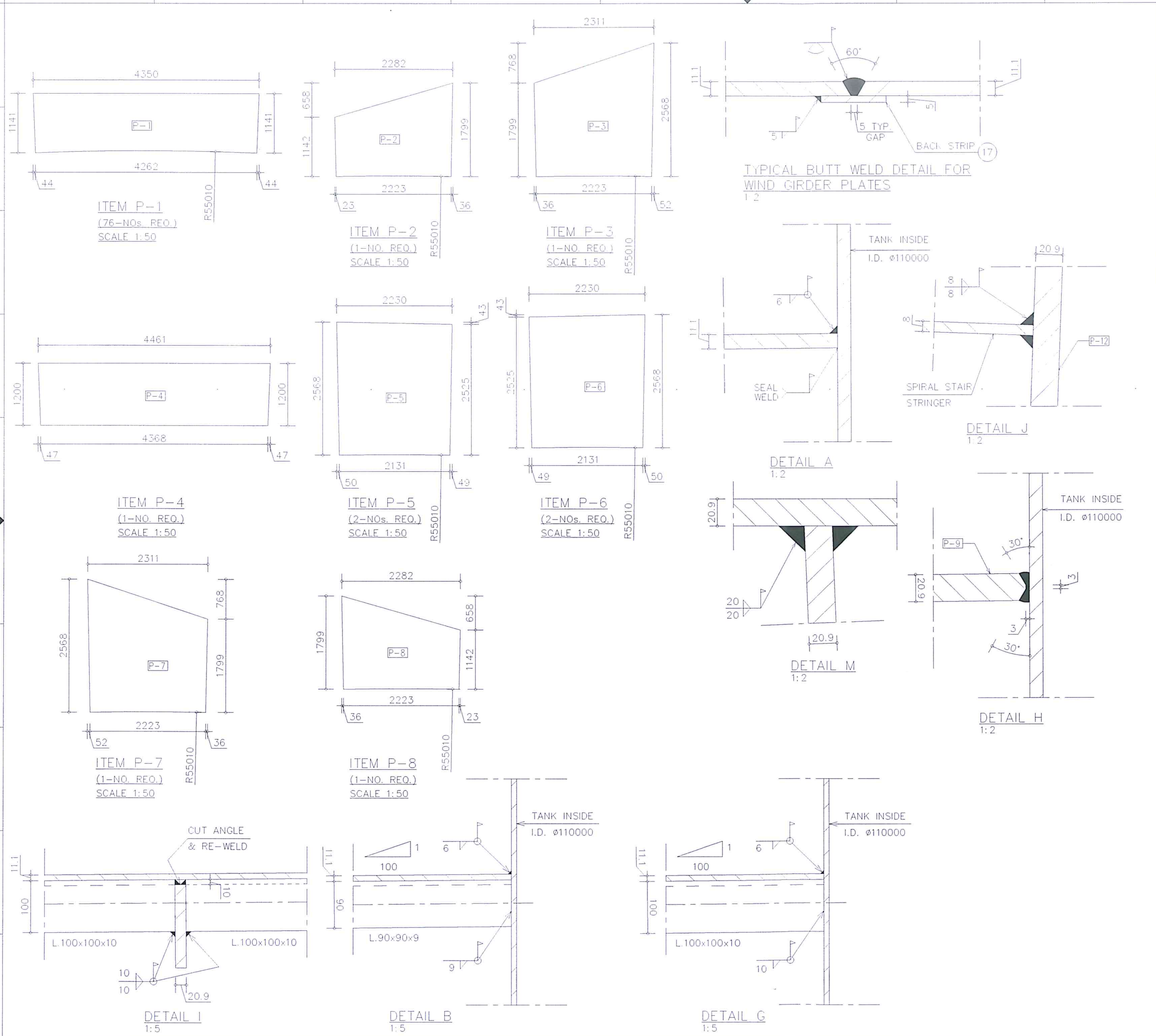
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Details

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-008 | SHEET No. 2 OF 4 | REVISION 3



LEGENDS

- LG – LONG
- C.L. – CENTER LINE
- E.L. – EARTHING LUG
- CP.E.L. – CP EXTERNAL LUG
- THK. – THICKNESS
- S.M. – SETTLEMENT MARK
- O.D. – OUTER DIAMETER
- R. – RADIUS
- T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
- T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
- C.J.P. – COMPLETE JOINT PENETRATION
- A.N.J. – ANNULAR PLATE WELD JOINT
- B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
- B.P.W.J. – BOTTOM PLATE WELD JOINT
- TYP – TYPICAL
- DET – DETAIL
- NOS. – NUMBERS
- W.P – WORKING POINT
- C.O.D – CLEAN OUT DOOR
- I.D. – INNER DIAMETER
- EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	14/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

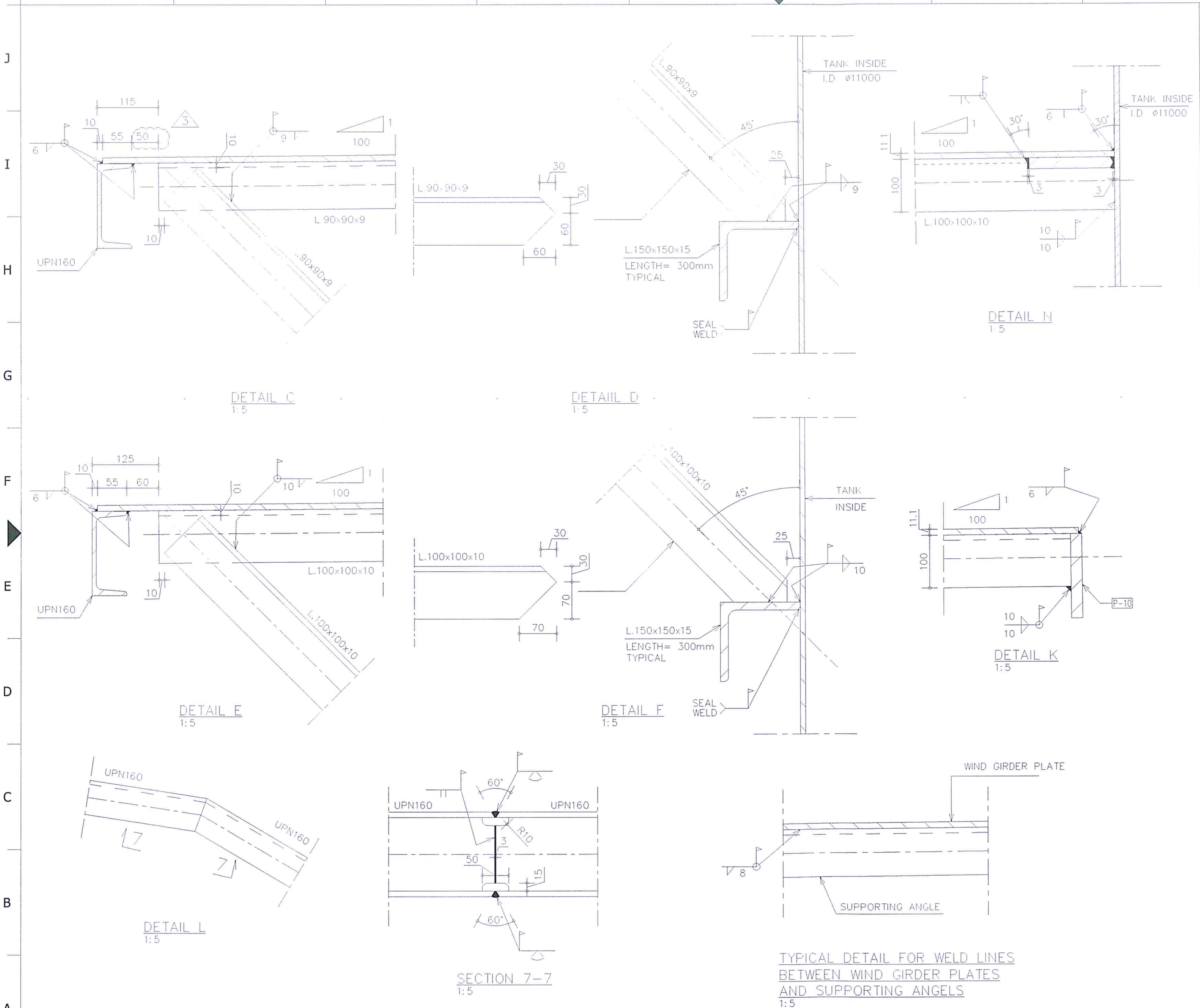
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Details

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-008	3 OF 4	3



TYPICAL DETAIL FOR WELD LINES BETWEEN WIND GIRDER PLATES AND SUPPORTING ANGELS
1:5

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
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B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
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1	14/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

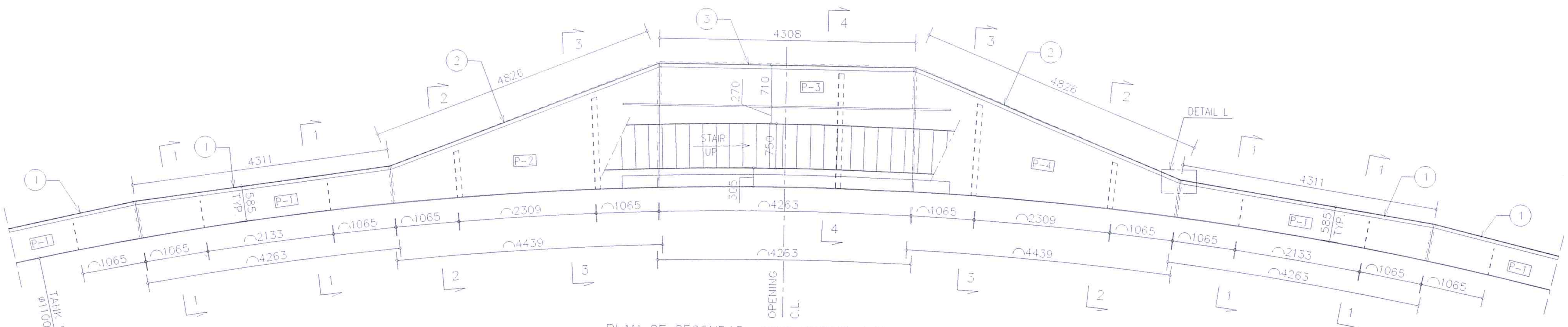
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

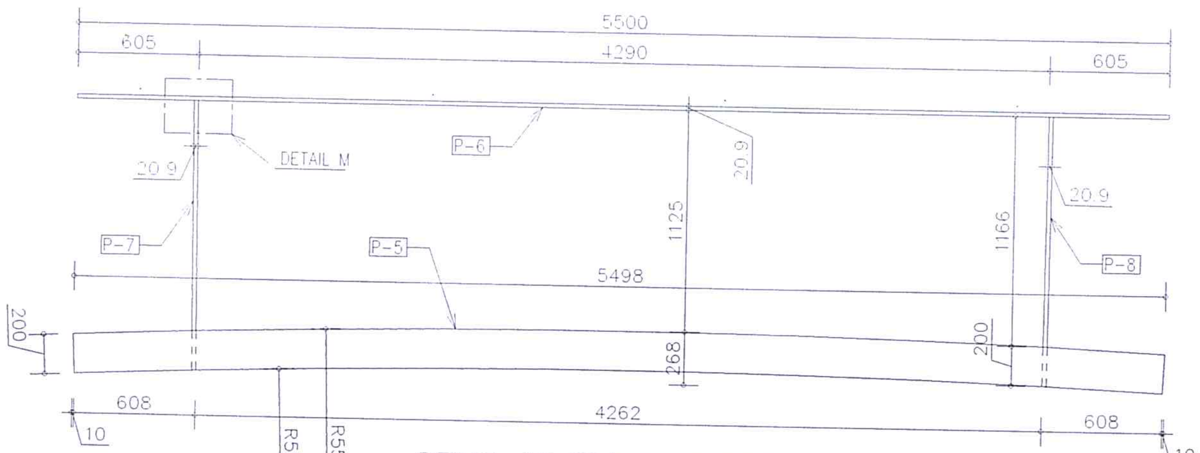
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Primary Wind Girder Details

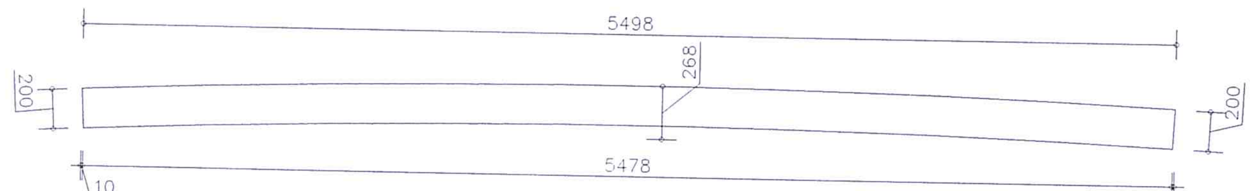
DIMS. IN mm
FORMAT: A2
DRAWING NO.: 1251-100-116-02-XX-D01-008
SHEET No. 4 OF 4
REVISION 3



PLAN OF SECONDARY WIND GIRDER @ EL.+17789 T.O.S.
1:50



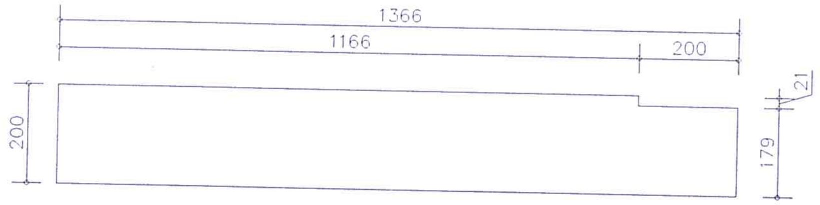
DETAIL OF FRAME AT OPENING
1:25



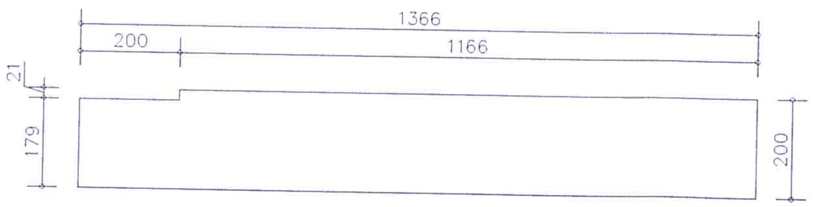
ITEM 19
(1-NO. REQ.)
1:25



ITEM 20
(1-NO. REQ.)
1:25



ITEM 21
(1-NO. REQ.)
1:10



ITEM 22
(1-NO. REQ.)
1:10

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH	QTY.	WIEGHT
1	CHANNEL	UPN160	ST44	4311	78	6321.65
2	CHANNEL	UPN160	ST44	4826	2	181.46
3	CHANNEL	UPN160	ST44	4308	1	80.99
4	ANGLE	L90x90x9	ST44	1538	2	37.53
5	ANGLE	L90x90x9	ST44	2064	2	50.36
6	ANGLE	L90x90x9	ST44	589	1	7.19
7	ANGLE	L100x100x10	ST44	2622	1	39.59
8	ANGLE	L90x90x9	ST44	754	2	18.40
9	ANGLE	L90x90x9	ST44	956	2	23.33
10	PLATE	PL.450x450x8	ST44		156	1983.85
11	ANGLE	L150x150x15	ST44	300	5	47.40
12	BACK STRIP	PL.50x5	A283 GR.C	43126		84.63
18	PLATE	9425x2400x8	A283 GR.C		14	19887.50
19	PLATE	5498x200x20.9	A537 CL.1		1	180.41
20	PLATE	5500x200x20.9	A537 CL.1		1	180.47
21	PLATE	1366x200x20.9	A537 CL.1		1	44.82
22	PLATE	1366x200x20.9	A537 CL.1		1	44.82
TOTAL WIEGHT						29214.40

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. THIS DRAWING IS FOR FABRICATION ONLY. FOR SECONDARY WIND GIRDER ORIENTATION REFER TO ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002
3. FOR PRIMARY WIND GIRDER ARRANGEMENT & DETAILS REFER TO DRAWINGS NO. 1251-100-116-02-XX-D01-007 & 1251-100-116-02-XX-D01-008.
4. ALL WELDS SHALL BE 6mm THICKNESS FILLET WELD, UNLESS OTHERWISE SPECIFIED.
5. ALL SHARP EDGES SHALL BE ROUND AND SMOOTH, ALL WELDING BURRS SHALL BE REMOVED.
6. TELL-TALE HOLE ON PAD PLATE TO BE SEAL WELDED AFTER PAD WELDING.
7. ANY ATTACHMENT WELDED TO SHELL SHALL BE THE SAME MATERIAL OF SHELL.
8. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 1251-100-116-02-XX-D01-010.
9. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001.

LEGENDS

LG. - LONG
C.L. - CENTER LINE
E.L. - EARTHING LUG
CP.E.L. - CP EXTERNAL LUG
THK. - THICKNESS
S.M. - SETTLEMENT MARK
O.D. - OUTER DIAMETER
R. - RADIUS
T.O.B.A.P. - TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. - TOP OF BOTTOM SKETCH PLATE
C.J.P. - COMPLETE JOINT PENETRATION
A.N.J. - ANNULAR PLATE WELD JOINT
B.C.D. - ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. - BOTTOM PLATE WELD JOINT
TYP. - TYPICAL
DET. - DETAIL
NOS. - NUMBERS
W.P. - WORKING POINT
C.O.D. - CLEAN OUT DOOR
I.D. - INNER DIAMETER
EL. - ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

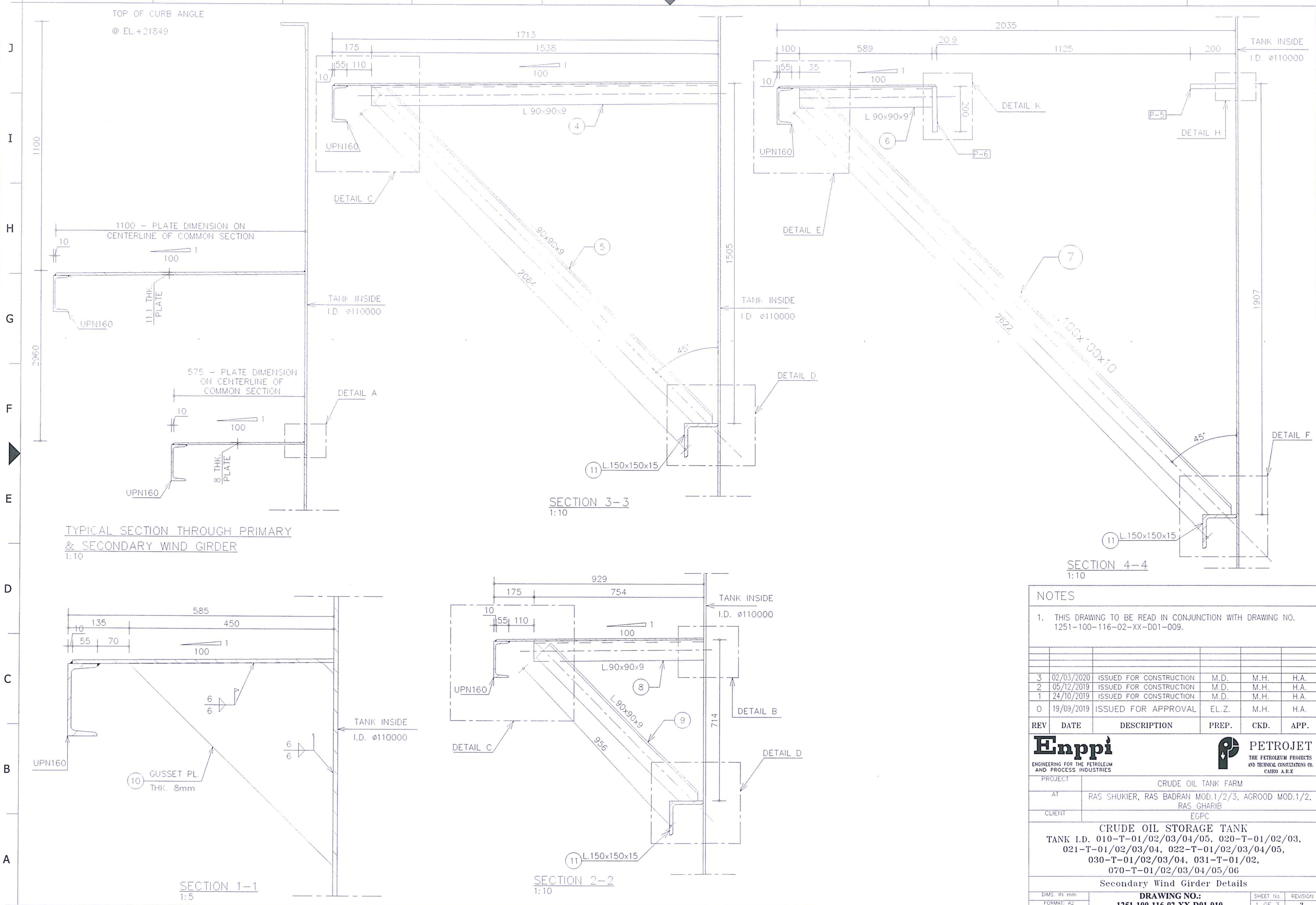
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Secondary Wind Girder Arrangement

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-009 | SHEET No. 1 OF 1 | REVISION 3



NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 1251-100-116-02-XX-D01-009.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

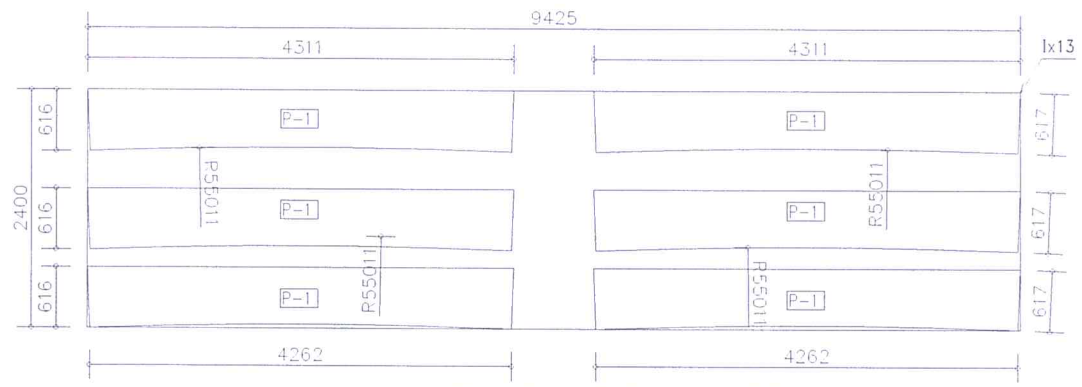
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

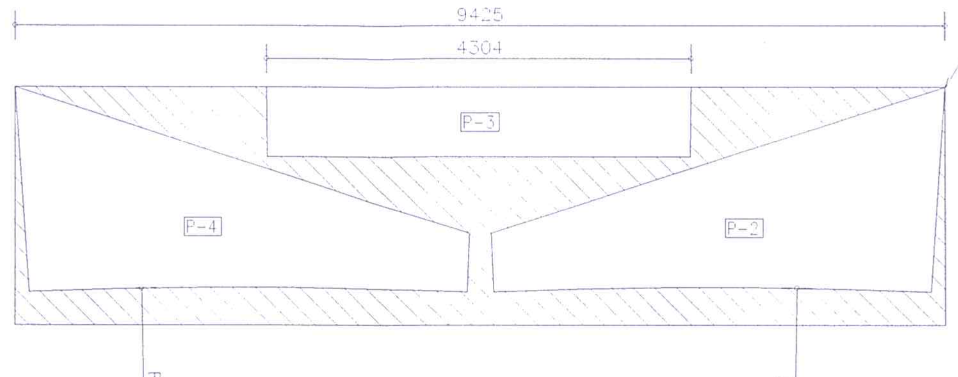
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Secondary Wind Girder Details

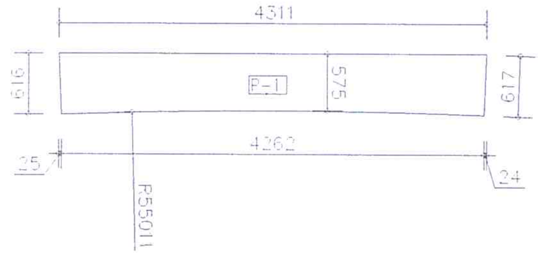
DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-010	SHEET No. 1 OF 3	REVISION 3



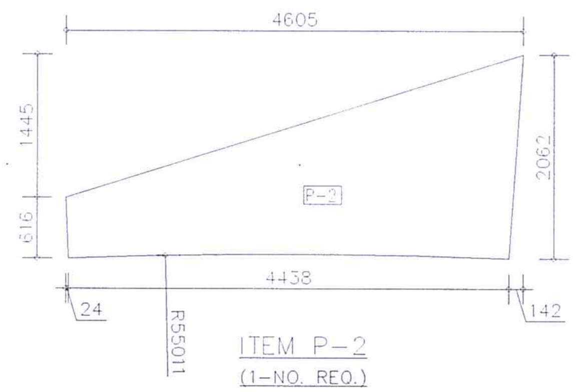
ITEM 18 - 8 THK. PLATE
(13-NOs. REQ.)
SCALE 1:50



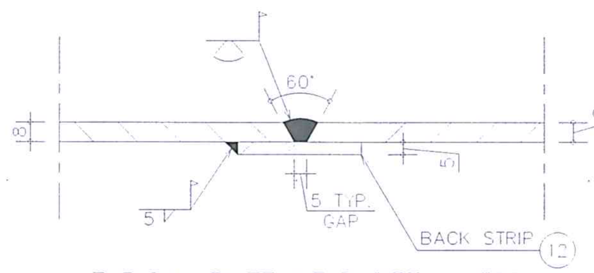
ITEM 18 - 8 THK. PLATE
(1-NO. REQ.)
SCALE 1:50



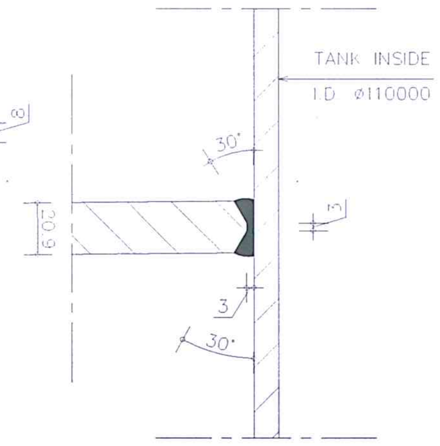
ITEM P-1
(78-NOs. REQ.)
SCALE 1:50



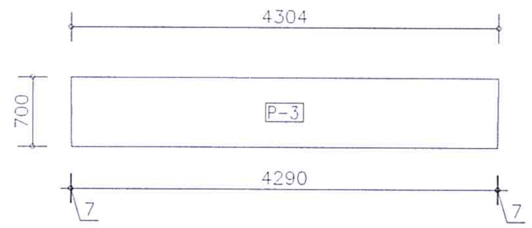
ITEM P-2
(1-NO. REQ.)
SCALE 1:50



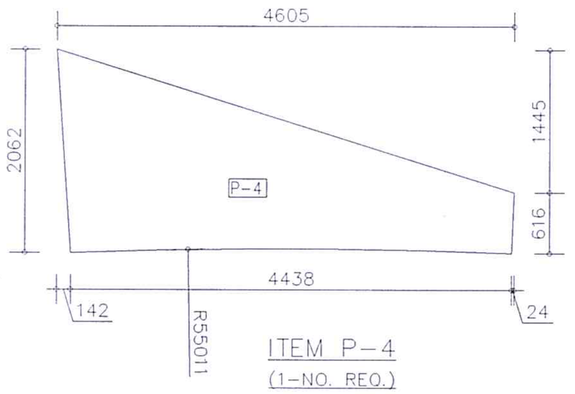
TYPICAL BUTT WELD DETAIL FOR WIND GIRDER PLATES
1:2



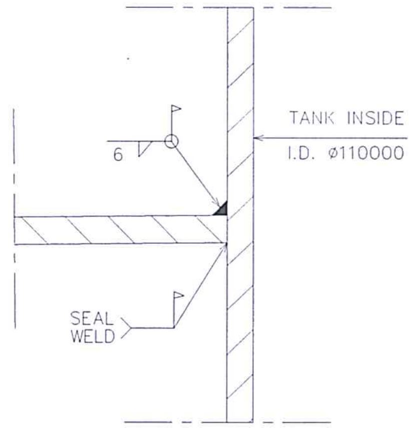
DETAIL H
1:2



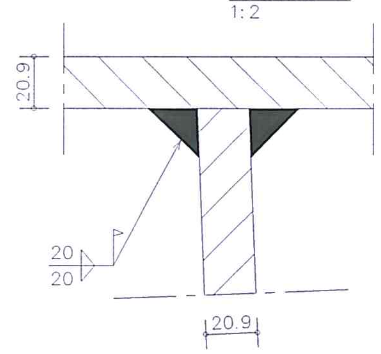
ITEM P-3
(1-NO. REQ.)
SCALE 1:50



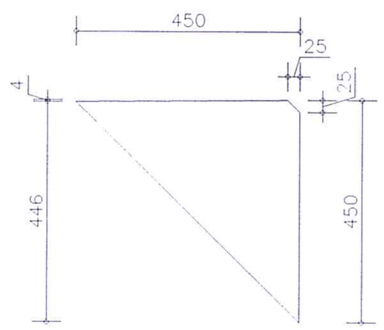
ITEM P-4
(1-NO. REQ.)
SCALE 1:50



DETAIL A
1:2



DETAIL M
1:2



ITEM 10
(156-NOS. REQ.)
SCALE 1:50

LEGENDS

LG. - LONG	TYP - TYPICAL
C.L. - CENTER LINE	DET - DETAIL
E.L. - EARTHING LUG	NOS. - NUMBERS
CP.E.L. - CP EXTERNAL LUG	W.P. - WORKING POINT
THK. - THICKNESS	C.O.D. - CLEAN OUT DOOR
S.M. - SETTLEMENT MARK	I.D. - INNER DIAMETER
O.D. - OUTER DIAMETER	EL. - ELEVATION
R. - RADIUS	
T.O.B.A.P. - TOP OF BOTTOM ANNULAR PLATE	
T.O.B.S.P. - TOP OF BOTTOM SKETCH PLATE	
C.J.P. - COMPLETE JOINT PENETRATION	
A.N.J. - ANNULAR PLATE WELD JOINT	
B.C.D. - ANCHOR BOLT CIRCLE DIAMETER	
B.P.W.J. - BOTTOM PLATE WELD JOINT	

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
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0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

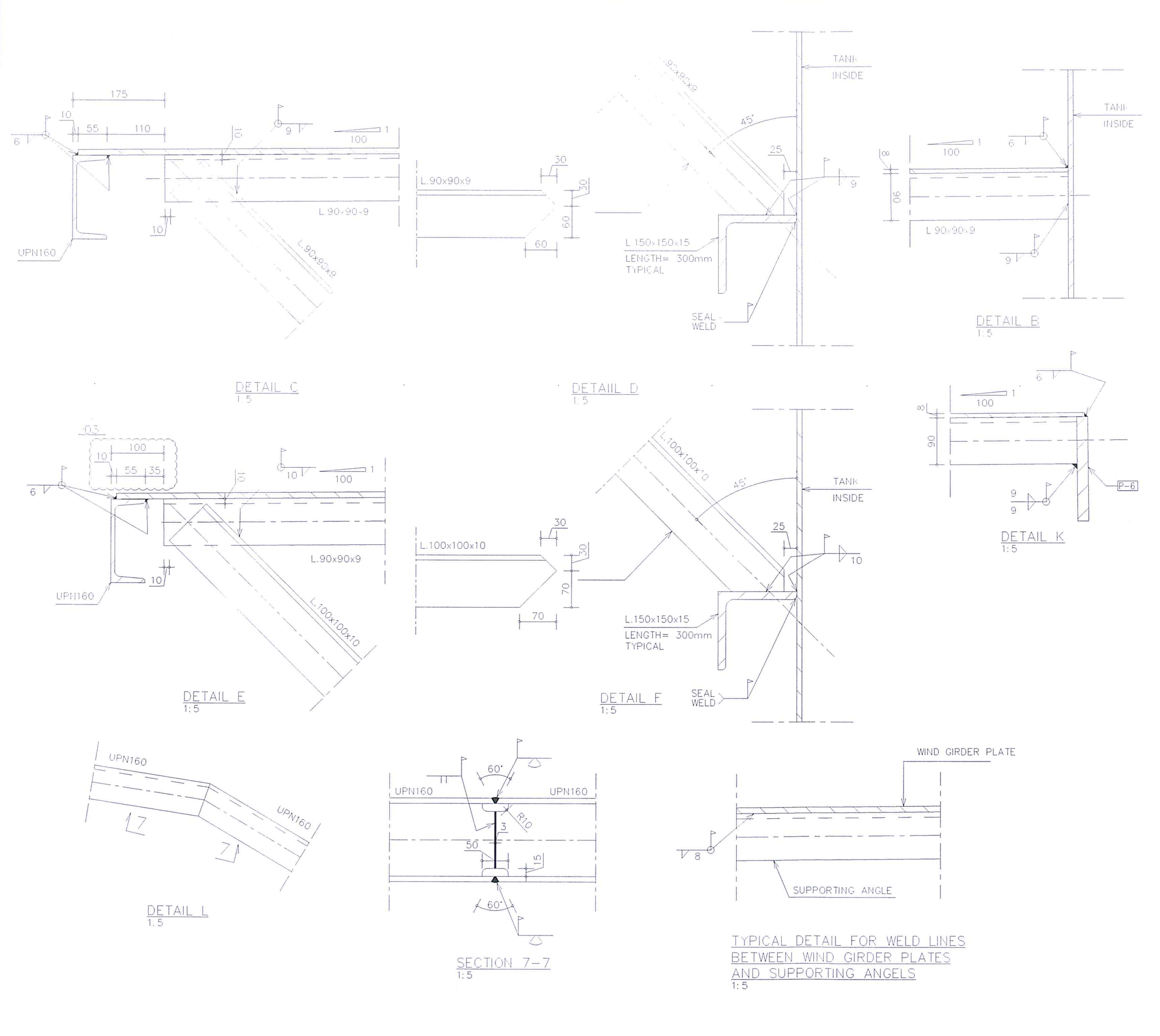
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Secondary Wind Girder Details

DIMS. IN mm / FORMAT: A2	DRAWING NO.:	SHEET No.	REVISION
	1251-100-116-02-XX-D01-010	2 OF 3	3



LEGENDS

LG. – LONG	TYP. – TYPICAL
C.L. – CENTER LINE	DET. – DETAIL
E.L. – EARTHING LUG	NOS. – NUMBERS
CP.E.L – CP EXTERNAL LUG	W.P. – WORKING POINT
THK. – THICKNESS	C.O.D. – CLEAN OUT DOOR
S.M. – SETTLEMENT MARK	I.D. – INNER DIAMETER
O.D. – OUTER DIAMETER	EL. – ELEVATION
R. – RADIUS	

T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P – COMPLETE JOINT PENETRATION
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B.P.W.J. – BOTTOM PLATE WELD JOINT

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
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0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

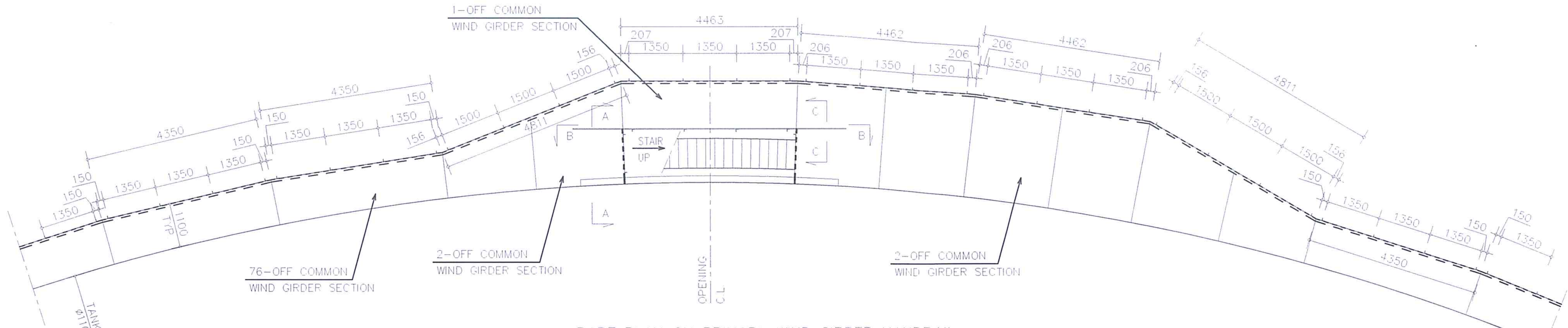
PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

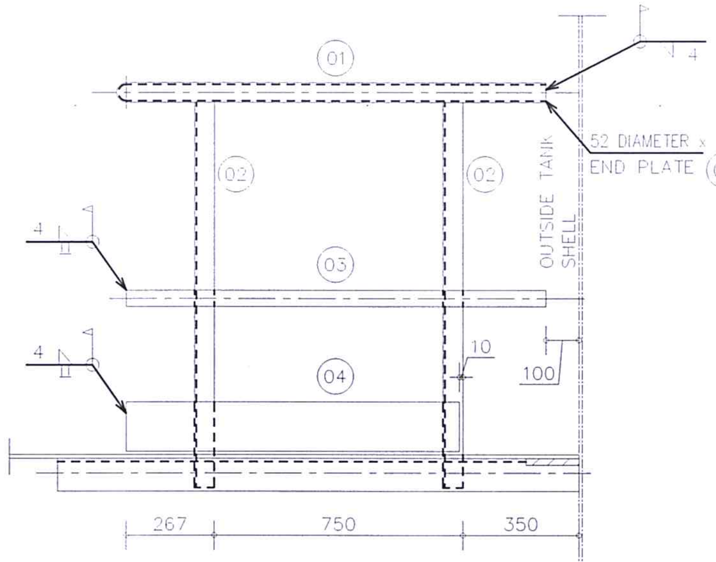
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Secondary Wind Girder Details

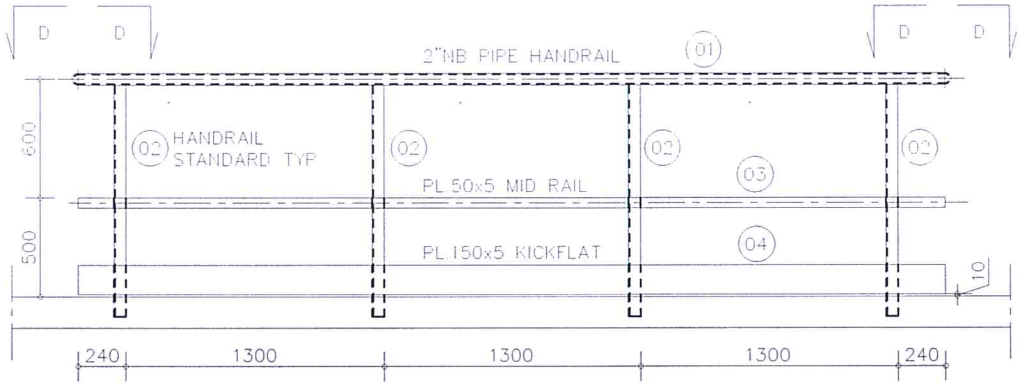
DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-010 | SHEET No. 3 OF 3 | REVISION 3



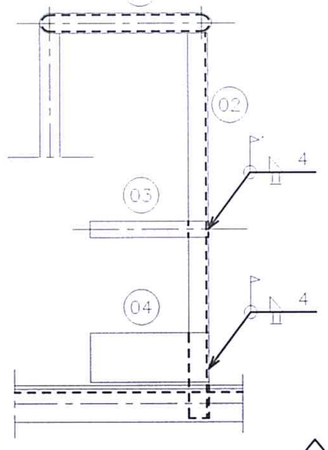
PART PLAN ON PRIMARY WIND GIRDER HANDRAIL
1:100



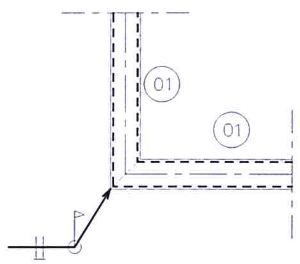
SECTION A–A
1:15



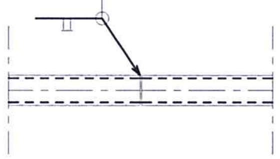
SECTION B–B
1:25



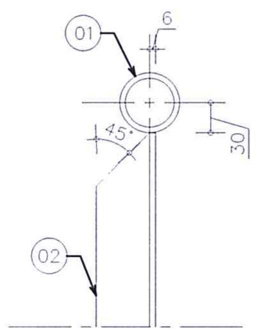
SECTION C–C
1:15



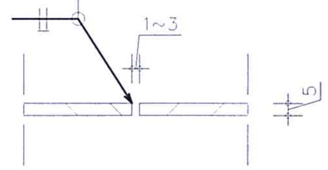
SECTION D–D
1:10



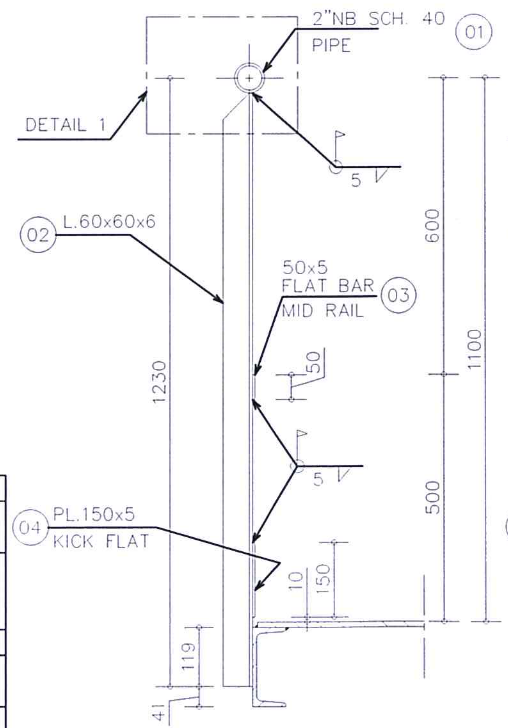
TYPICAL JOINT IN HANDRAIL (01)
1:10



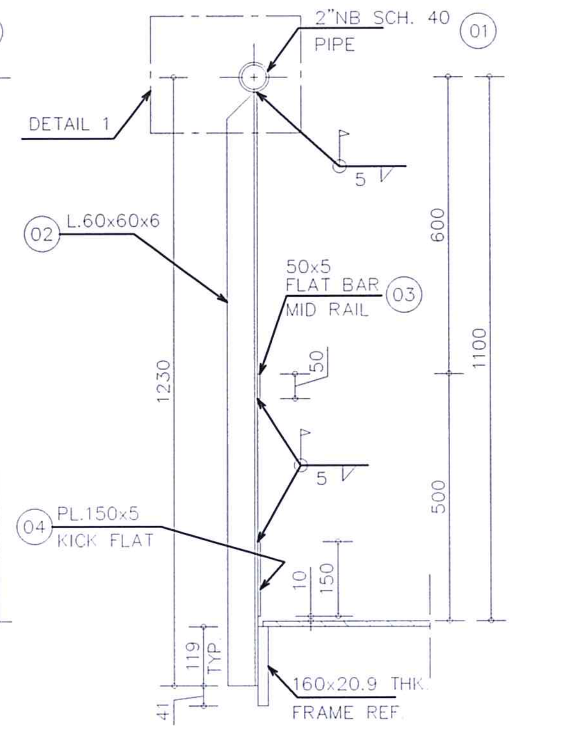
DETAIL 1
1:5



TYPICAL JOINT IN MID RAIL & KICK FLAT
1:2



DETAIL OF HANDRAIL STANDARD
245- OFF REQUIRED
1:10



TYP. DETAIL FOR HANDRAIL STANDARD AT WIND GIRDER OPENING
7- OFF REQUIRED
1:10

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	SIZE	MATERIAL	LENGTH	QTY.	WEIGHT
1	HANDRAIL : 2"NB SCH. 40 x 6000 LG (SUPPLIED IN RANDOMS)	2"NB SCH. 40	A 106 Gr. B	6000	61	1991.04
2	POST	L60x60x6	ST44	1200	252	1639.01
3	MID RAIL (SUPPLIED IN RANDOMS)	PL.50x5	A283 GR.C	6000	61	718.28
4	KICK FLAT (SUPPLIED IN RANDOMS)	PL.150x5	A283 GR.C	6000	61	2154.83
5	END CAP : 52 DIAMETER x 5 THK.	PLATE	A283 GR.C		1	0.10
	TOTAL WIEGHT					6503.25

NOTES

1. ALL DIMENSIONS AND ELEVATIONS ARE IN mm UNLESS OTHERWISE NOTED.
2. THIS DRAWING IS FOR FABRICATION ONLY. FOR PRIMARY WIND GIRDER ORIENTATION REFER TO ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
3. ALL WELDS SHALL BE 6mm THICKNESS FILLET WELD, UNLESS OTHERWISE SPECIFIED.
4. ALL SHARP EDGES SHALL BE ROUND AND SMOOTH, ALL WELDING BURRS SHALL BE REMOVED.
5. TELL-TALE HOLE ON PAD PLATE TO BE SEAL WELDED AFTER PAD WELDING.
6. ANY ATTACHMENT WELDED TO SHELL SHALL BE THE SAME MATERIAL OF SHELL.
7. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 1251-100-116-02-XX-D01-007 & 1251-100-116-02-XX-D01-008.
8. FOR SURFACE PREPARATION REFER TO DWG. NO. 1251-100-116-02-XX-B01-001. (01)

LEGENDS

- LG. – LONG
- C.L. – CENTER LINE
- E.L. – EARTHING LUG
- CP.E.L. – CP EXTERNAL LUG
- THK. – THICKNESS
- S.M. – SETTLEMENT MARK
- O.D. – OUTER DIAMETER
- R. – RADIUS
- T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
- T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
- C.J.P. – COMPLETE JOINT PENETRATION
- A.N.J. – ANNULAR PLATE WELD JOINT
- B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
- B.P.W.J. – BOTTOM PLATE WELD JOINT
- TYP. – TYPICAL
- DET. – DETAIL
- NOS. – NUMBERS
- W.P. – WORKING POINT
- C.O.D. – CLEAN OUT DOOR
- I.D. – INNER DIAMETER
- EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

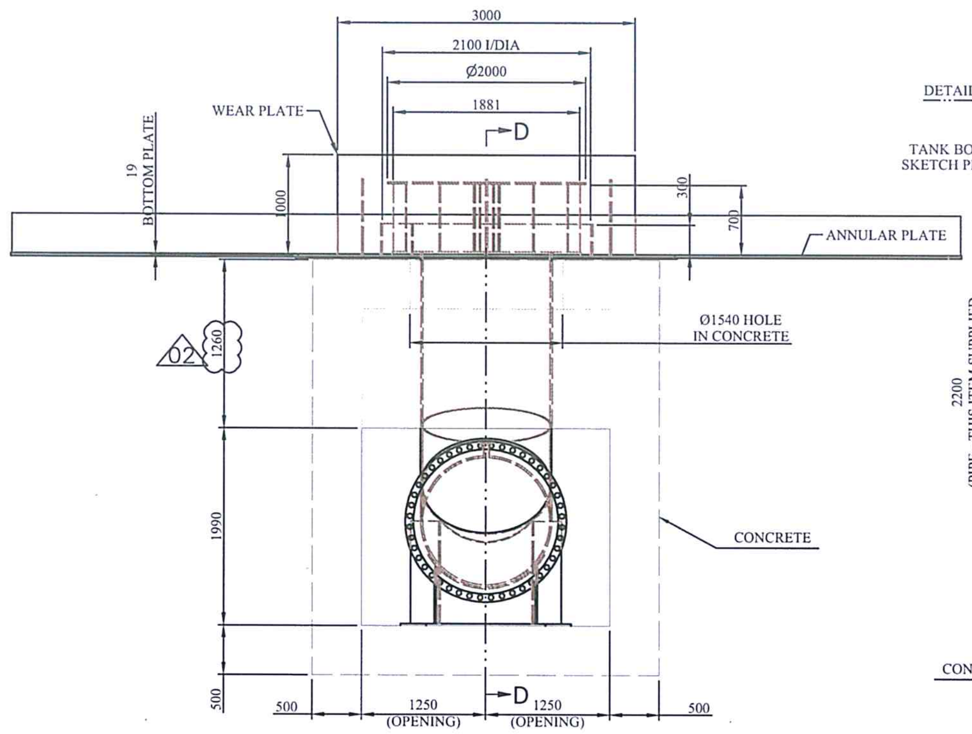
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PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

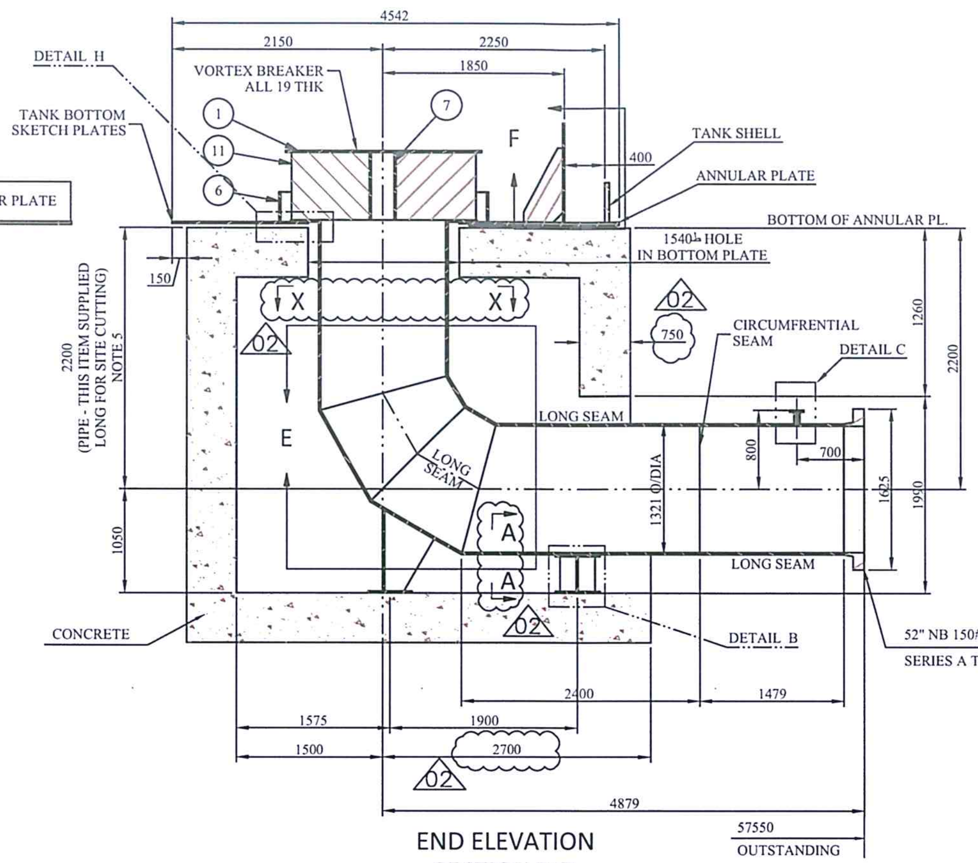
CRUDE OIL STORAGE TANK
TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Primary Wind Girder Handrail Details

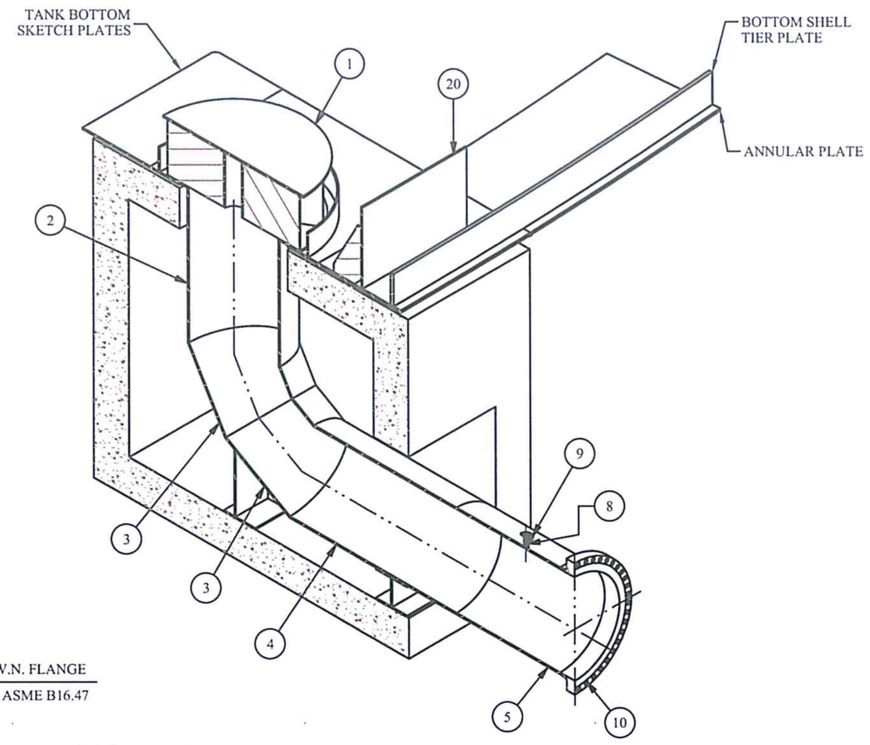
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-011	1 OF 1	01



ELEVATION
SCALE 1 : 50

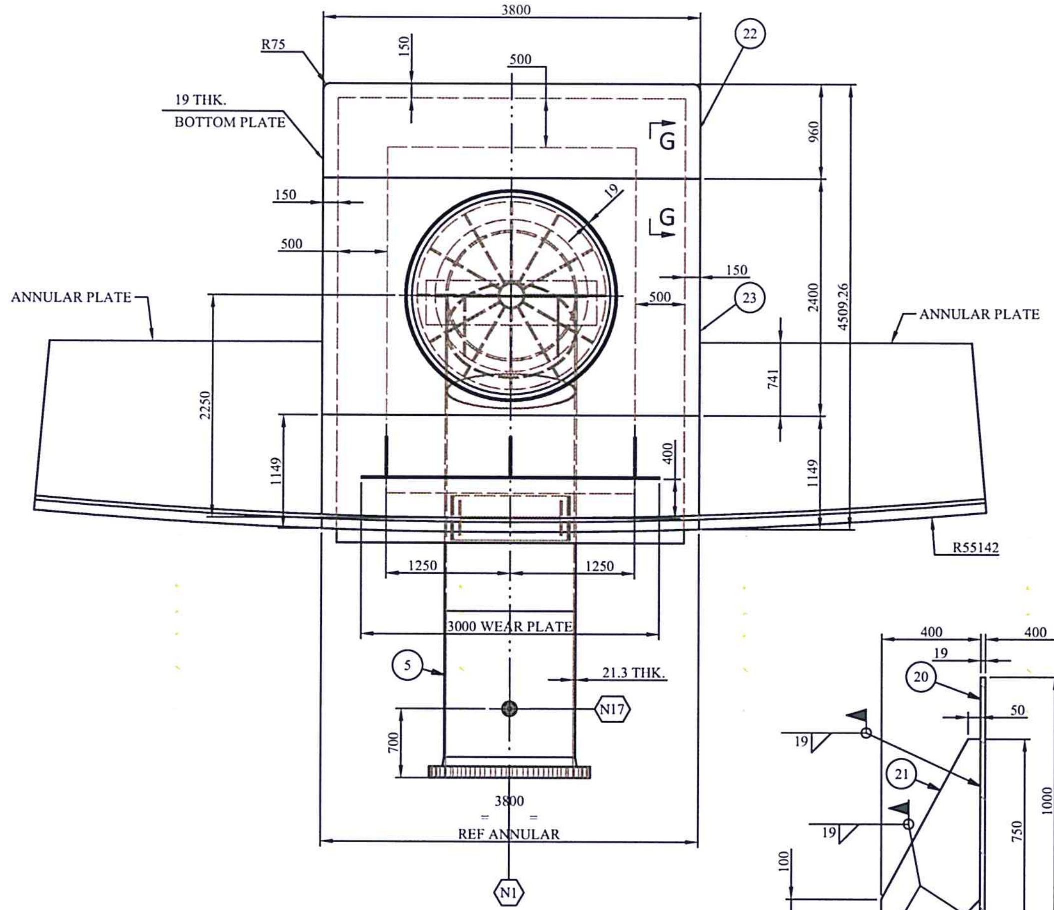


END ELEVATION
SECTION D-D
SCALE 1 : 50

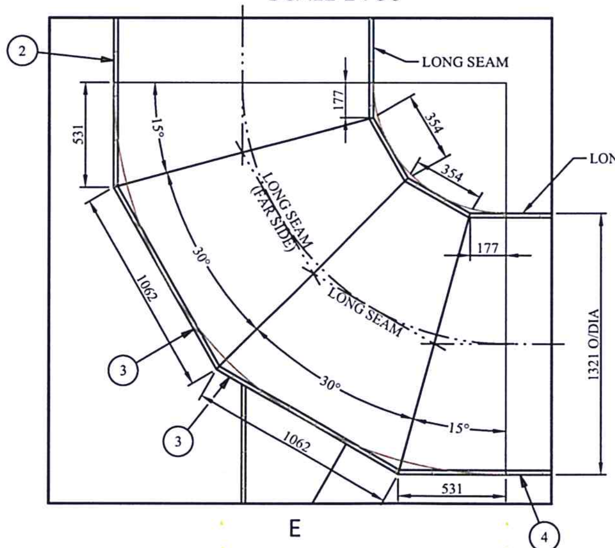


NOZZLE LOADS:

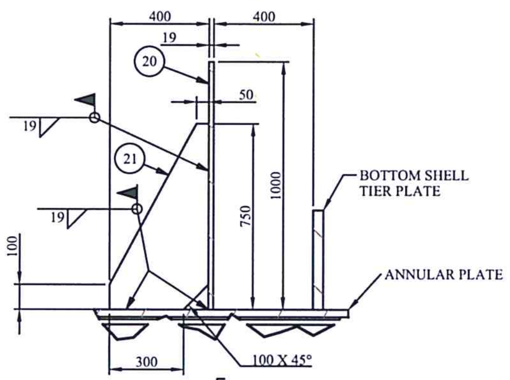
LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
10 Flange	Empty	Operating Load 1	-9,177	37,032	3,155	90,158	-19,890	-108,011
		Operating Load 2	-14,930	34,407	10,311	96,304	42,106	-111,681
		Operating Load 3	-4,161	30,175	2,264	152,260	-14,386	-124,804
		Operating Load 4	-2,149	28,494	2,349	162,225	-15,606	-137,457
		Sustained Load	1,453	40,842	2,300	-22,381	-2,164	2,465
	Full	Operating Load 1	-8,137	26,630	-1,196	85,105	15,045	123,624
		Operating Load 2	-14,164	40,897	2,520	67,843	37,709	140,269
		Operating Load 3	1,099	-19,385	1,022	152,313	-9,601	-59,443
		Operating Load 4	2,047	-20,697	948	160,658	-10,574	-47,880
		Sustained Load	-944	40,576	1,668	29,686	1,693	-1,971



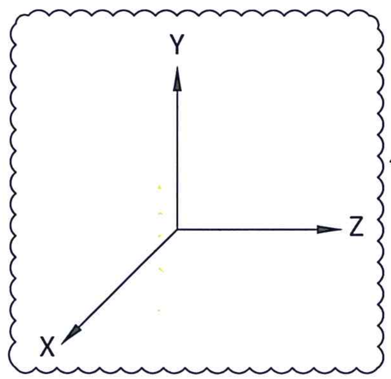
PLAN
SCALE 1 : 50



E
SCALE 1 : 25



F
SCALE 1 : 20



GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–013.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251–100–116–02–XX–B01–002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251–100–116–02–XX–D01–001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

REACTION LOADS AT 52" WATER INLET/OUTLET CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	35612	76558
Ps	38752	10415
D+Ps	77000	88848
D+Ps+T1	77000	88848
D+External nozzle loads	24892	69335
D+Ps+T1+External nozzle loads	46286	97107

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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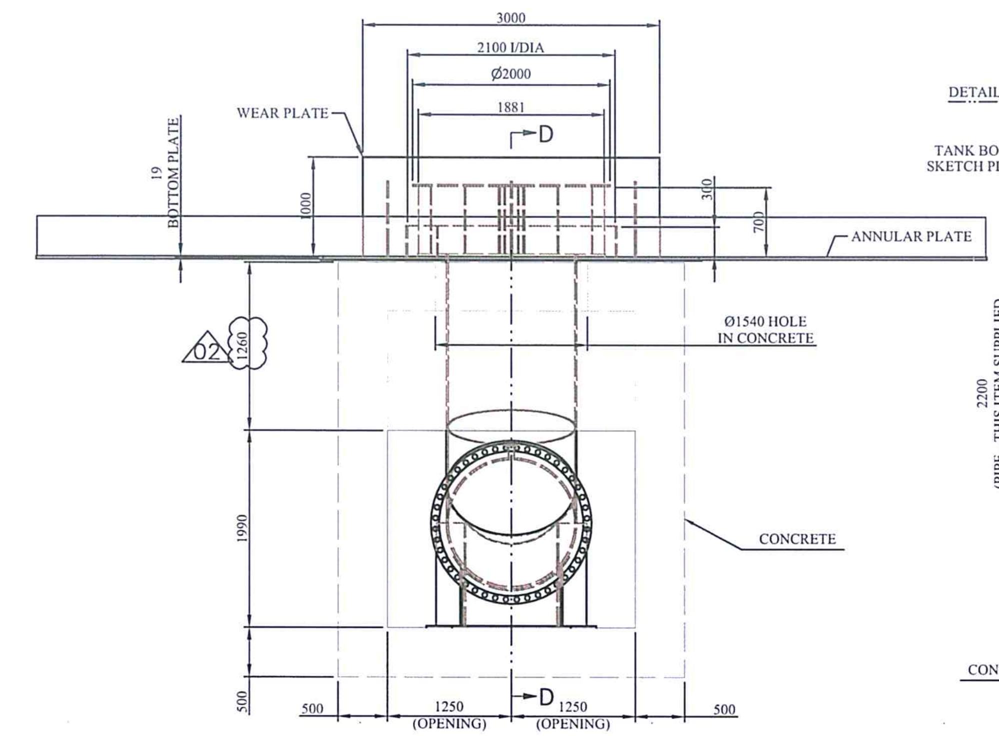
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHAKIER 1, RAS BADRAN MOD.1/2/3,
CLIENT	EGPC

CRUDE OIL STORAGE TANK

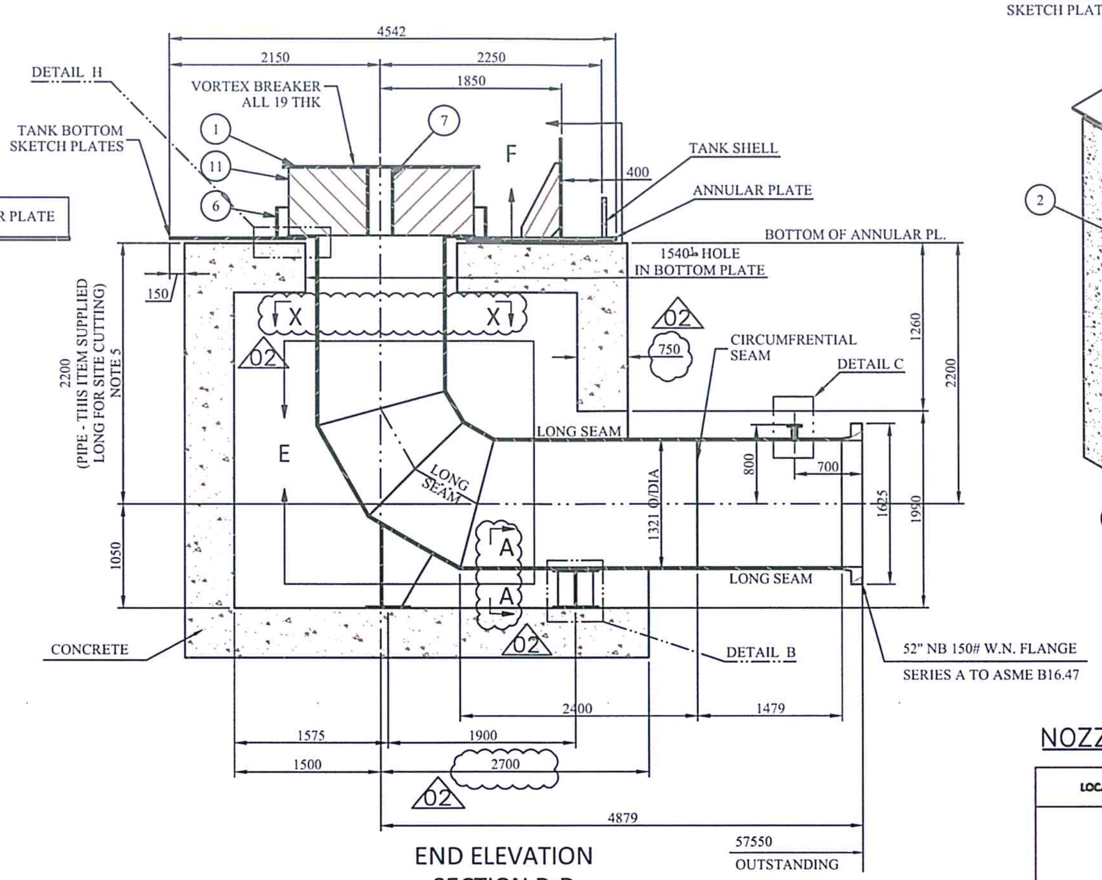
TANK I.D. 010–T–001, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05

Arrangement of 52" NP Inlet / Outlet Ref. N1 & N17

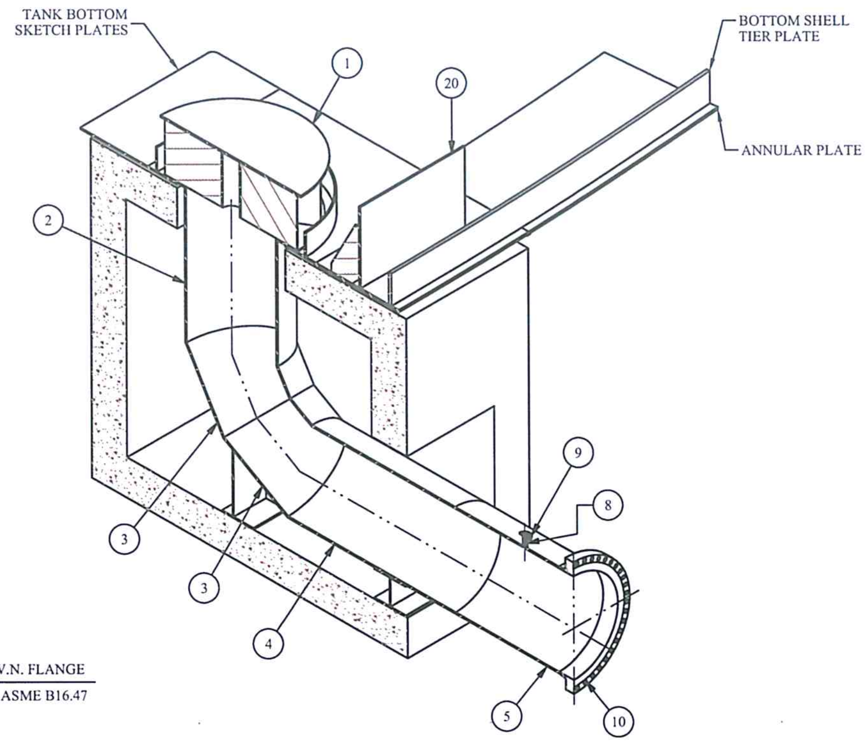
DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-012	SHEET No. 1 OF 3	REVISION 02



ELEVATION
SCALE 1 : 50

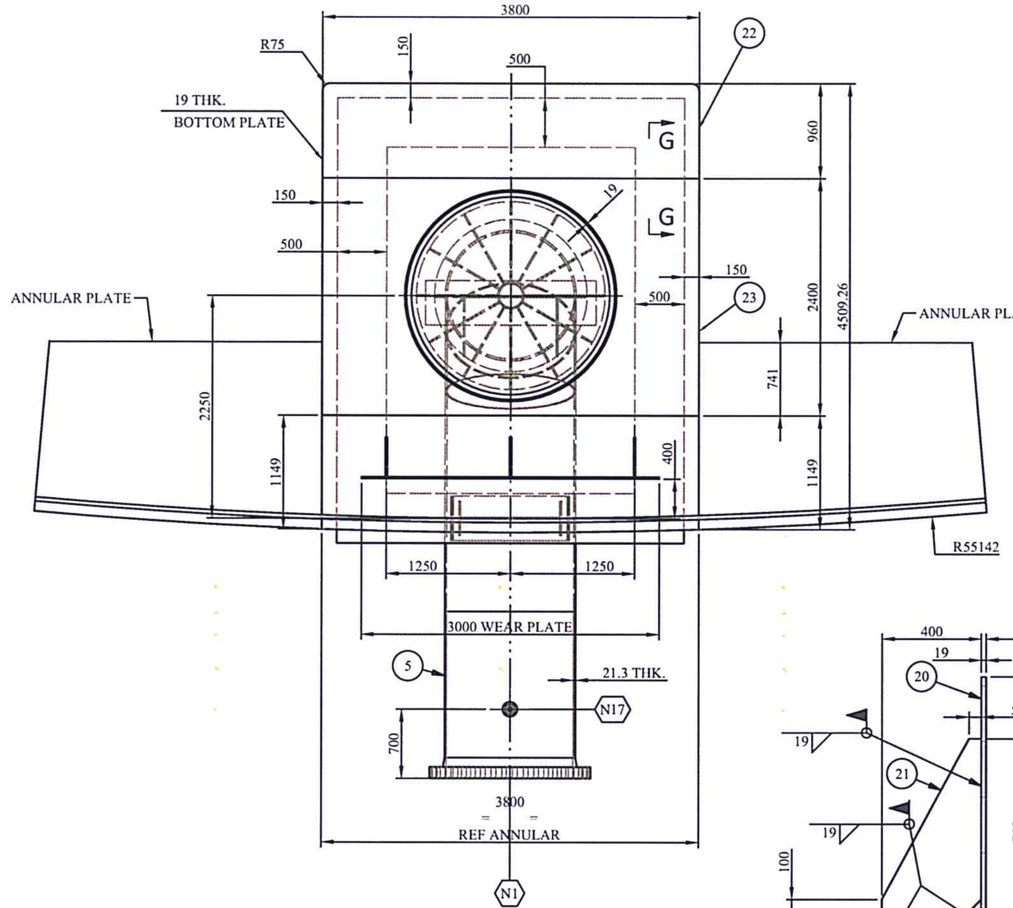


END ELEVATION
SECTION D-D
SCALE 1 : 50

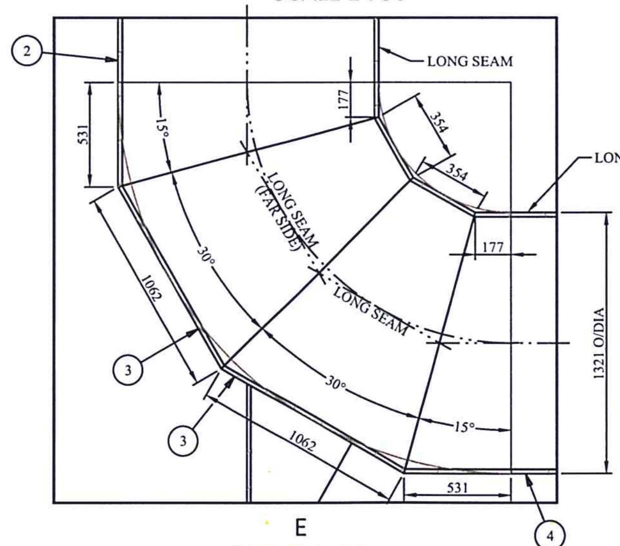


NOZZLE LOADS:

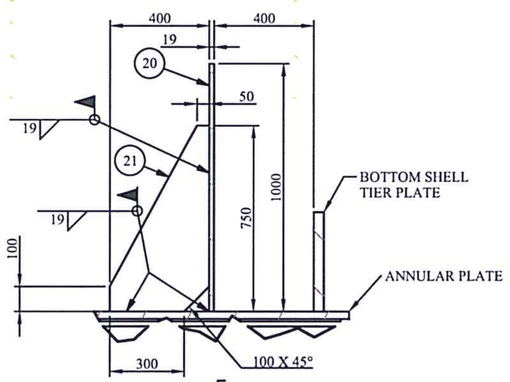
LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
10 Flange	Empty	Operating Load 1	-5,200	-14,600	-104,500	-100,800	-17,200	24,200
		Operating Load 2	-21,800	-28,500	-141,900	-142,400	-69,900	40,000
		Operating Load 3	10,100	11,100	68,600	-160,000	26,300	-36,500
		Operating Load 4	13,900	13,400	79,800	-164,200	37,800	-31,400
		Sustained Load	-300	13,100	-2,800	-105,100	-700	-1,500
	Full	Operating Load 1	5,100	-400	-115,600	-63,100	20,500	-35,100
		Operating Load 2	21,700	1,300	-142,900	-53,600	68,700	-40,300
		Operating Load 3	-11,400	9,200	69,600	-171,700	-28,000	27,700
		Operating Load 4	-14,900	13,500	79,900	-171,100	-39,900	35,200
		Sustained Load	200	13,500	-2,200	-105,800	600	1,500



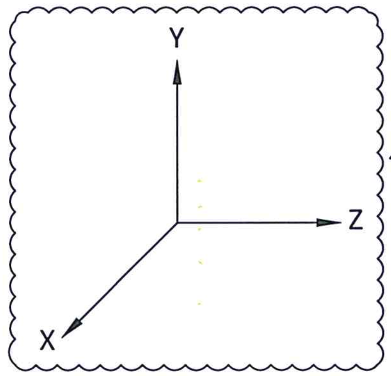
PLAN
SCALE 1 : 50



E
SCALE 1 : 25



F
SCALE 1 : 20



REACTION LOADS AT 52" WATER INLET/OUTLET CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	35612	76558
Ps	38752	10415
D+Ps	77000	88848
D+Ps+T1	77000	88848
D+External nozzle loads	0	106190
D+Ps+T1+External nozzle loads	10551	106240

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–013.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251–100–116–02–XX–B01–002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251–100–116–02–XX–D01–001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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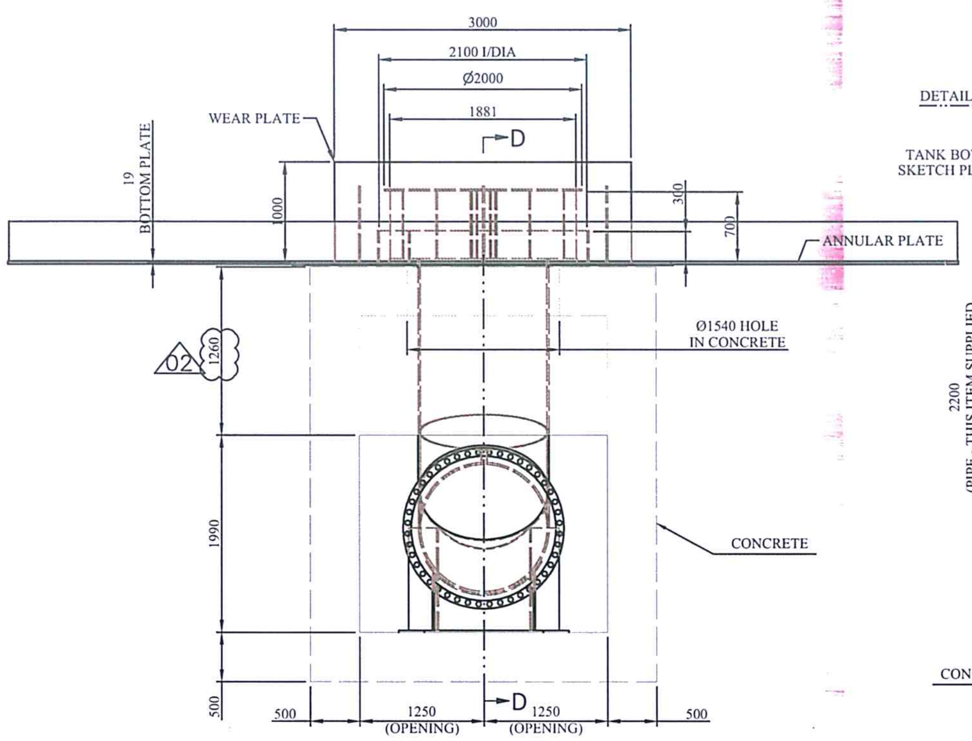
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHAKIER 2/3/4/5, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

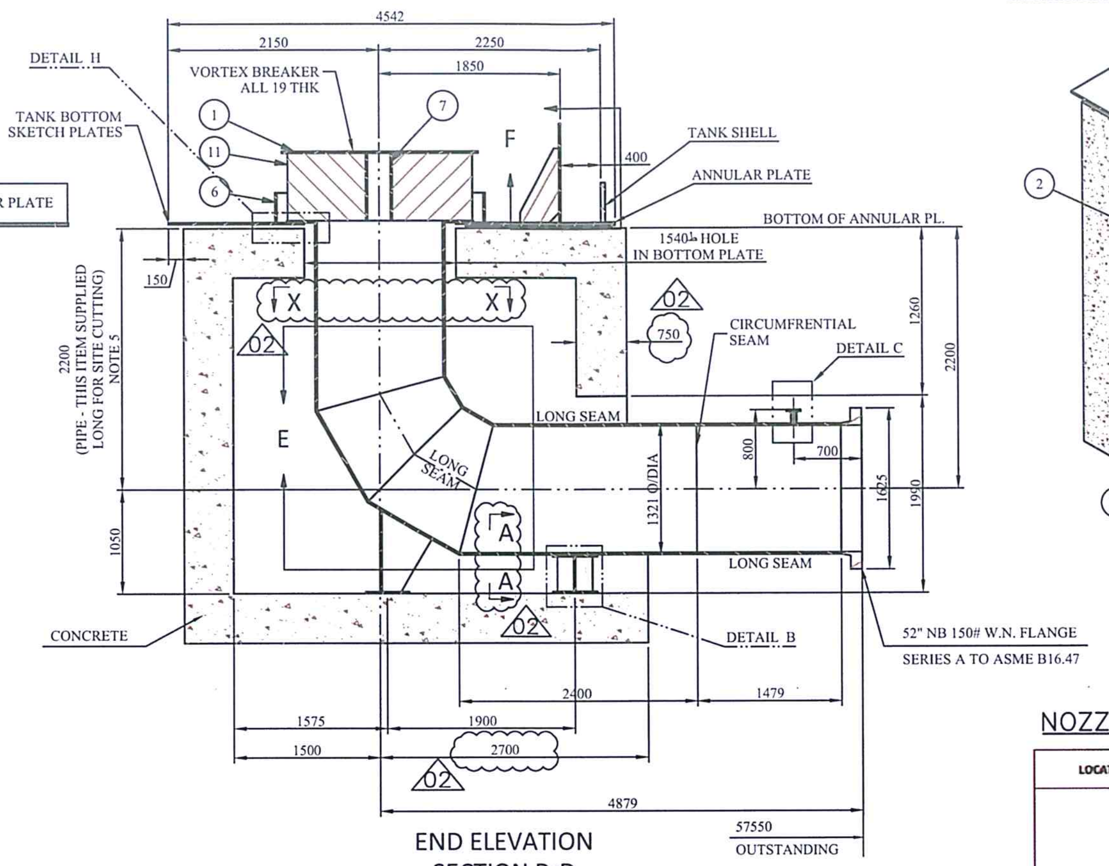
TANK I.D. 010–T–002/003/004/005, 070–T–01/02/03/04/05/06

Arrangement of 52" NP Inlet / Outlet Ref. N1 & N17

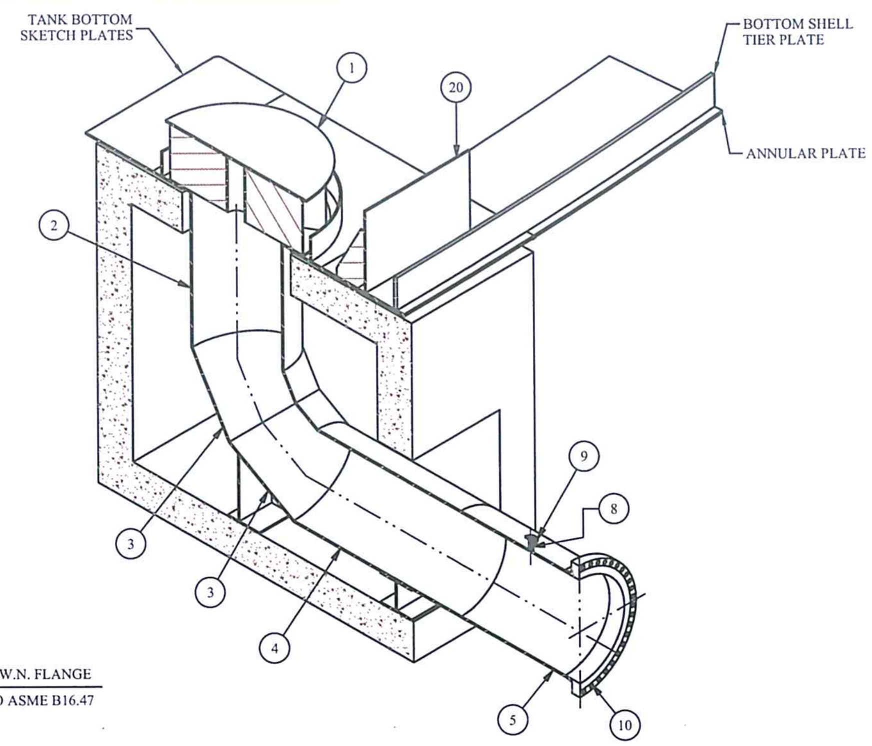
DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-012	SHEET No. 2 OF 3	REVISION 02



ELEVATION
SCALE 1 : 50

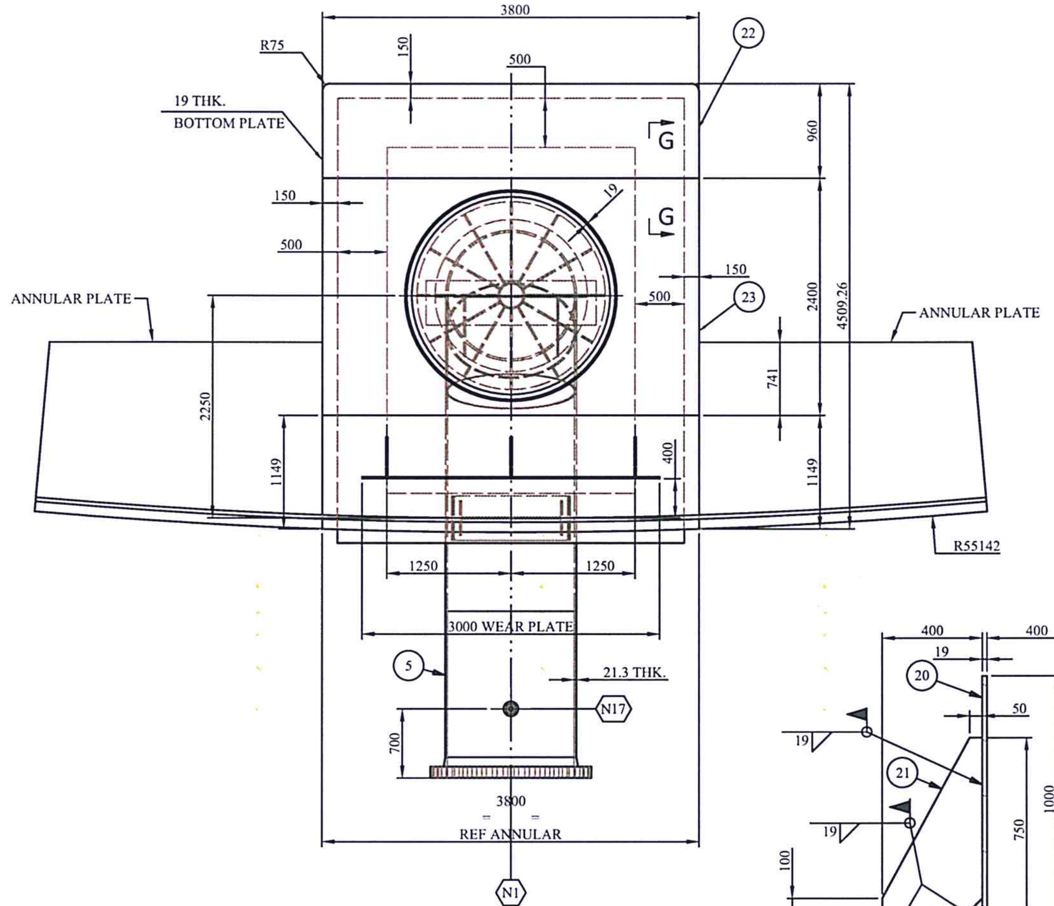


END ELEVATION
SECTION D-D
SCALE 1 : 50

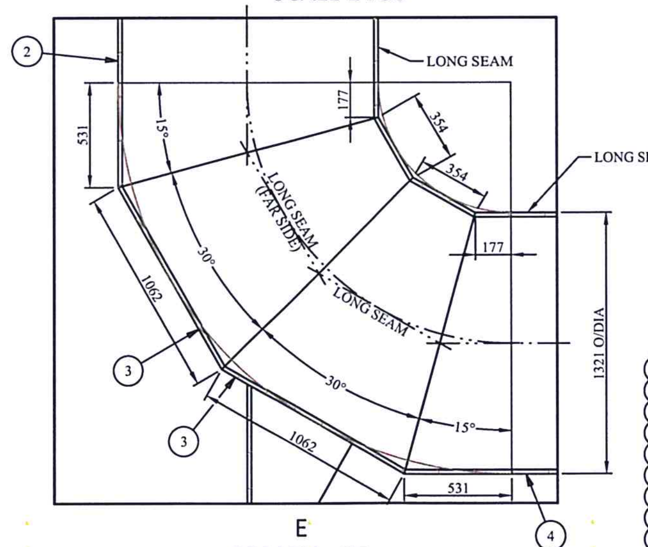


NOZZLE LOADS:

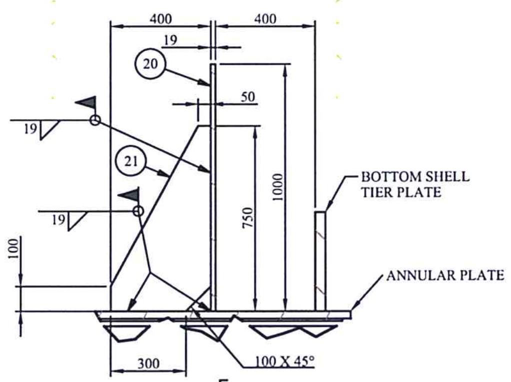
LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
10 Flange	Empty	Operating Load 1	2,570	4,250	-72,280	-64,850	-6,680	1,730
		Operating Load 2	9,520	12,820	-80,600	-81,150	-25,000	5,850
		Operating Load 3	-5,740	4,140	39,880	-114,680	18,800	31,020
		Operating Load 4	-9,130	6,840	49,530	-125,310	21,110	21,910
		Sustained Load	1,460	560	-20,720	-73,300	-5,060	-6,270
	Full	Operating Load 1	2,800	-2,650	-64,030	-45,610	-7,390	1,540
		Operating Load 2	9,800	-7,790	-73,670	-22,170	-26,030	5,310
		Operating Load 3	-5,610	4,210	42,430	-113,930	18,040	33,380
		Operating Load 4	-8,970	7,480	52,150	-125,220	19,340	28,550
		Sustained Load	1,460	550	-20,830	-73,300	-5,070	-6,270



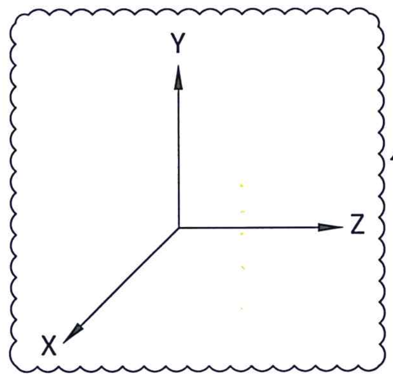
PLAN
SCALE 1 : 50



E
SCALE 1 : 25



F
SCALE 1 : 20



REACTION LOADS AT 52" WATER INLET/OUTLET CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	35612	76558
Ps	38752	10415
D+Ps	77000	88848
D+Ps+T1	77000	88848
D+External nozzle loads	0	84333
D+Ps+T1+External nozzle loads	72290	75398

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-013.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251-100-116-02-XX-D01-001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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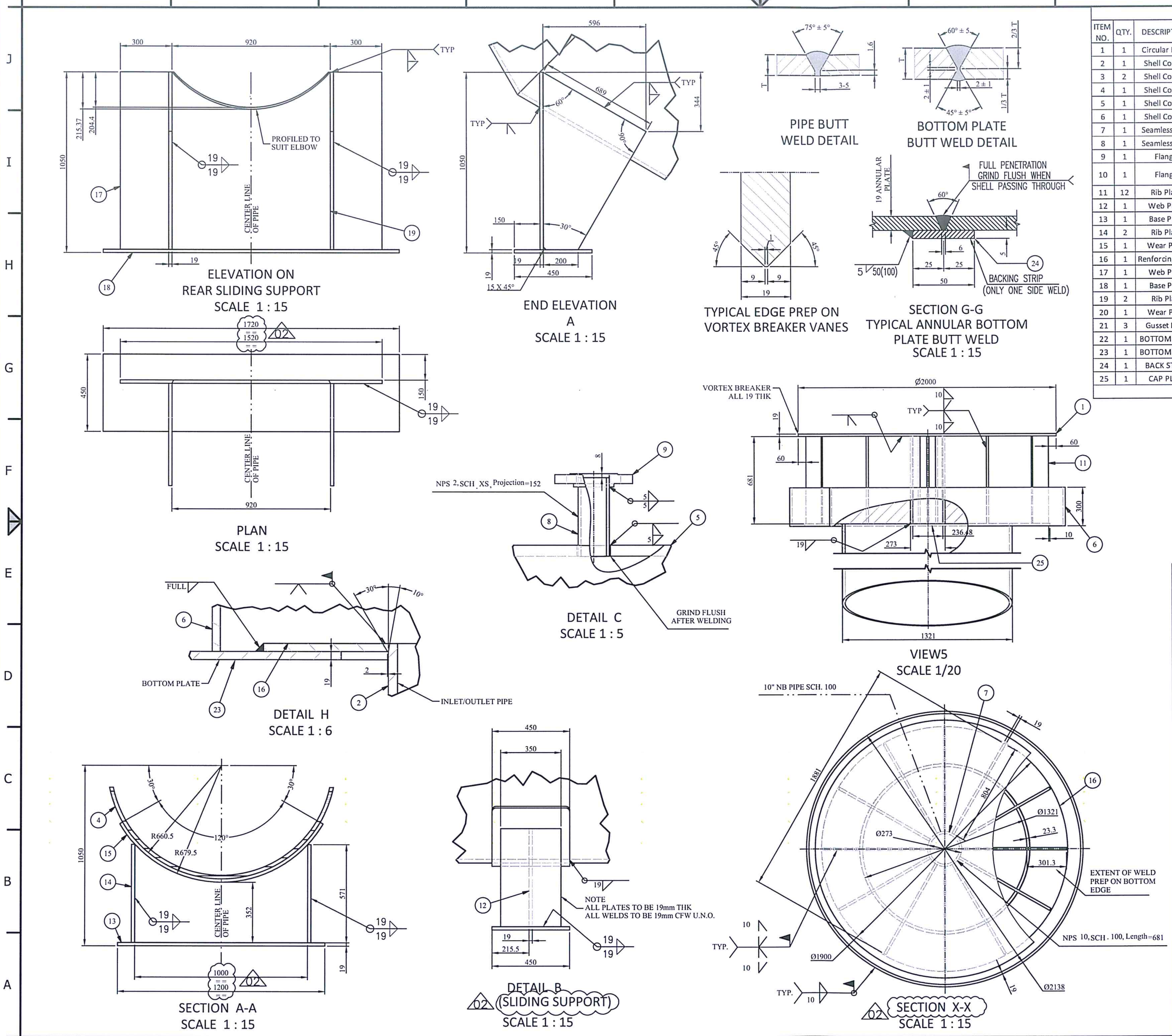
PROJECT: CRUDE OIL TANK FARM
AT: AGROOD MOD.1/2
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 030-T-01/02/03/04, 031-T-01/02

Arrangement of 52" NP Inlet / Outlet Ref. N1 & N17

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-012	SHEET No. 3 OF 3	REVISION 02



BILL OF MATERIAL

ITEM NO.	QTY.	DESCRIPTION	TECHNICAL CHARACTERISTICS	MATERIAL	WEIGHT Kg
1	1	Circular Plate	PL. O.D.=2000, THK.=19	A537 CL 2	468.60
2	1	Shell Course	PIPE 52"NB PL. I.D.=1278.4, THK.=21.3, Length=1500	A537 CL 2	1195.40
3	2	Shell Course	PIPE 52"NB PL. I.D.=1278.4, THK.=21.3, Length=1062	A537 CL 2	966.30
4	1	Shell Course	PIPE 52"NB PL. I.D.=1278.4, THK.=21.3, Length=2400	A537 CL 2	1517.00
5	1	Shell Course	PIPE 52"NB PL. I.D.=1278.4, THK.=21.3, Length=1479	A537 CL 2	1009.20
6	1	Shell Course	PL. I.D.=2100, THK.=19, Length=300	A537 CL 2	297.80
7	1	Seamless Pipe	NPS 10, SCH. 100, Length=681	A106 GR B	78.10
8	1	Seamless Pipe	NPS 2, SCH. XS, Projection=131.6	A106 GR B	1.10
9	1	Flange	NPS 2, Slip on, RF ,Class=150, Acc. to ASME B16.5 2016	A105	2.00
10	1	Flange	NPS 52, WN, RF,Class=150, SCH. User Defined, Acc. to ASME B16.47 Series A	A105	733.40
11	12	Rib Plate	PL. Width=681, Height=804, THK.=19	A537 CL 2	980.00
12	1	Web Plate	PL. Length=571, Width=1000, THK.=19	A537 CL 2	62.50
13	1	Base Plate	PL. Length=1200, Width=450, THK.=19	A537 CL 2	80.50
14	2	Rib Plate	PL. Length=570.93, Width=350, THK.=19	A537 CL 2	59.60
15	1	Wear Plate	PL. Length=1403.81, Width=450, THK.=19	A537 CL 2	94.10
16	1	Renforcing Plate	PL. O.D.=1900, THK.=19, I.D.=1325	A537 CL 2	217.23
17	1	Web Plate	PL. Length=1031, Width=1520, THK.=19	A537 CL 2	214.18
18	1	Base Plate	PL. Length=1720, Width=450, THK.=19	A537 CL 2	115.44
19	2	Rib Plate	PL. Length=1031, Width=596, THK.=19	A537 CL 2	112.19
20	1	Wear Plate	PL. Length=3000, Width=1000, THK.=19	A537 CL 2	447.45
21	3	Gusset Plate	PL. Length=750, Width=400, THK.=19	A537 CL 2	81.10
22	1	BOTTOM PLATE	PL.3800x960x19	A537 CL 2	544.10
23	1	BOTTOM PLATE	PL.3800x2400x19	A537 CL 2	1360.25
24	1	BACK STERIP	PL.50x5 LENGTH= 16600	A283 Gr. C	32.58
25	1	CAP PLATE	PLATE 235 DIA. x 19 THK.	A283 Gr. C	6.50
Total Weight (Kg)=					10676.61

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-012.
2. FOR BOTTOM PLATES WELDING DETAILS REFER TO DRAWING NO. 1251-100-116-02-XX-D01-001.
3. ITEM (02) SUPPLIED 1500mm LONG FOR SITE CUTTING.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/05/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

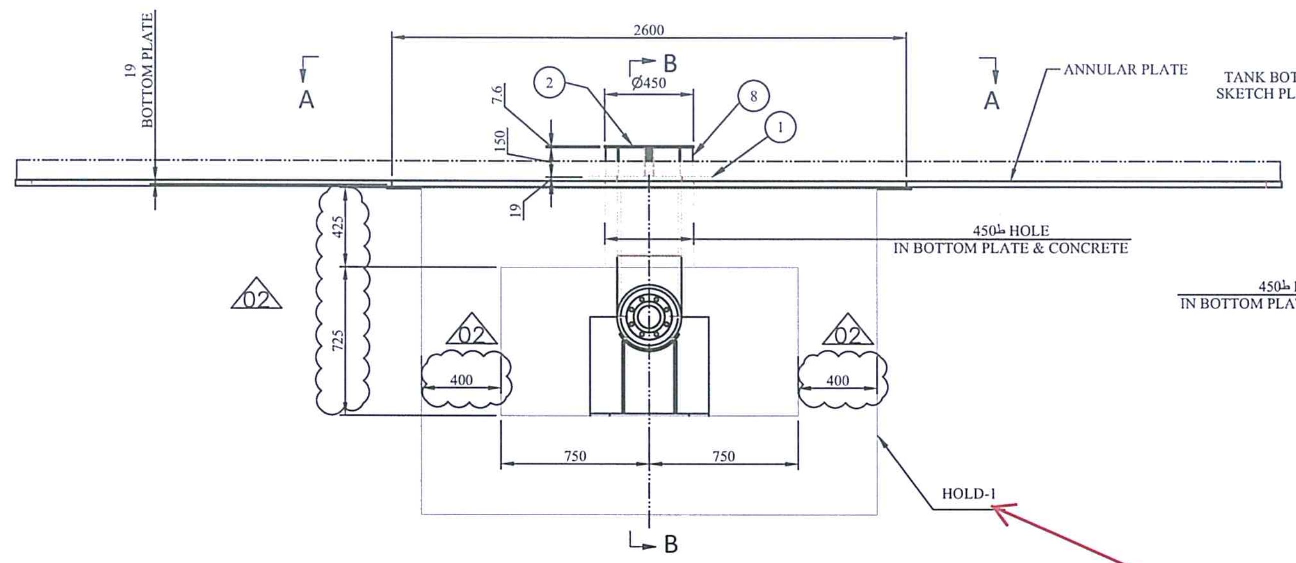
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

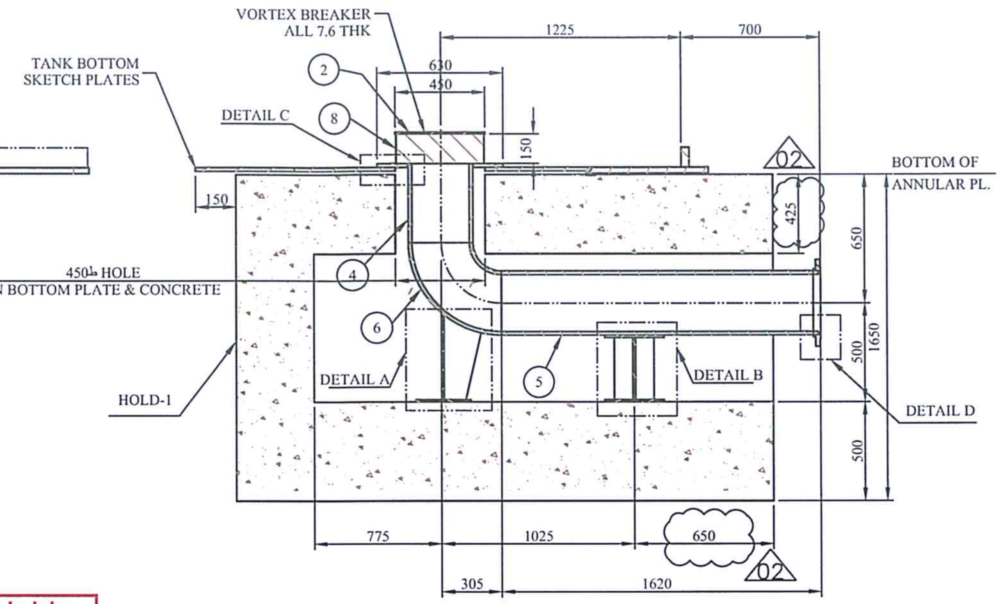
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of 52" NP Inlet / Outlet Ref. N1& N17

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-013	SHEET No. 1 OF 1	REVISION 02



ELEVATION
SCALE 1 : 26



END ELEVATION
SECTION B-B
SCALE 1 : 26

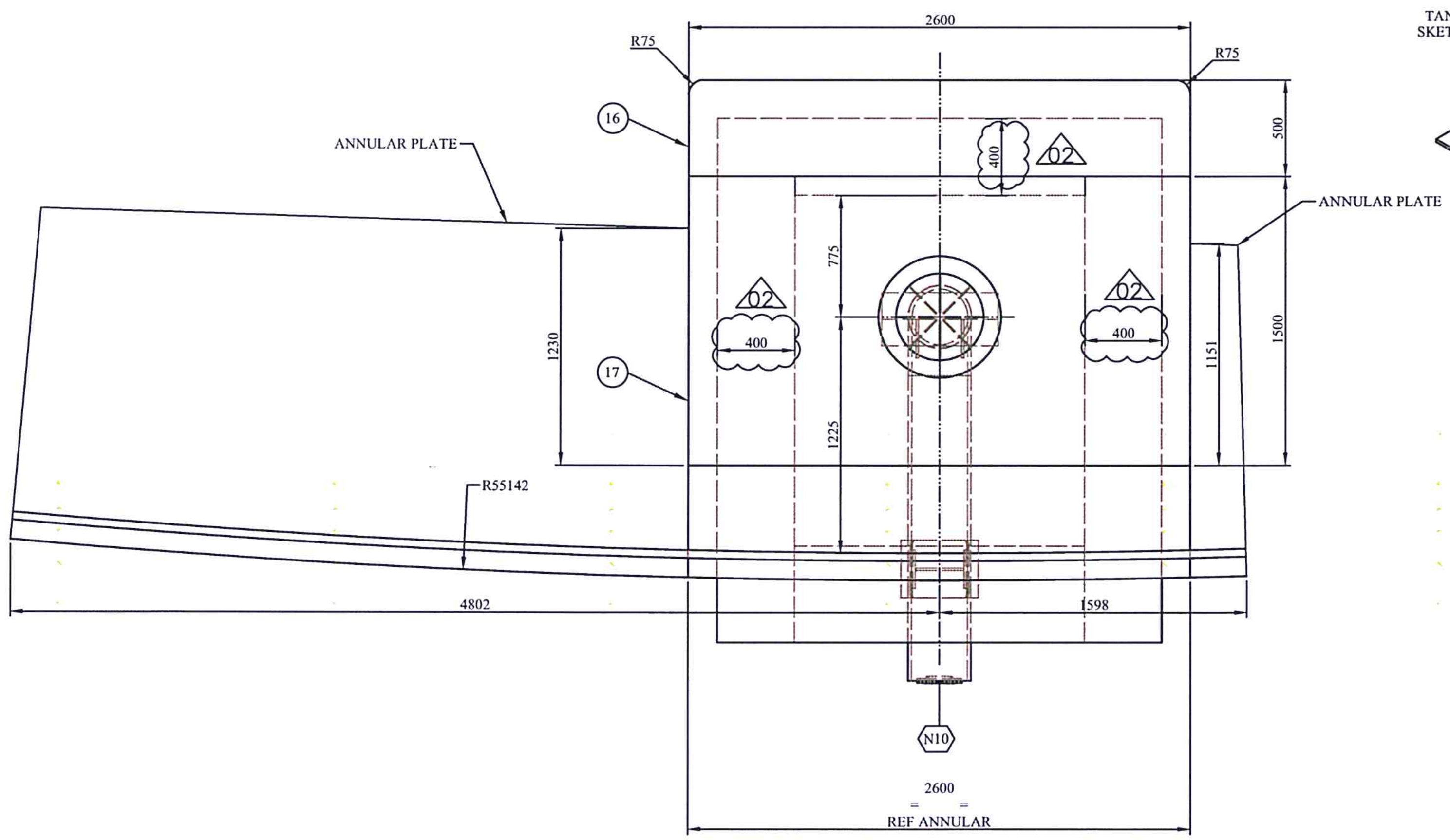
GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–015.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251–100–116–02–XX–B01–002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251–100–116–02–XX–D01–001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

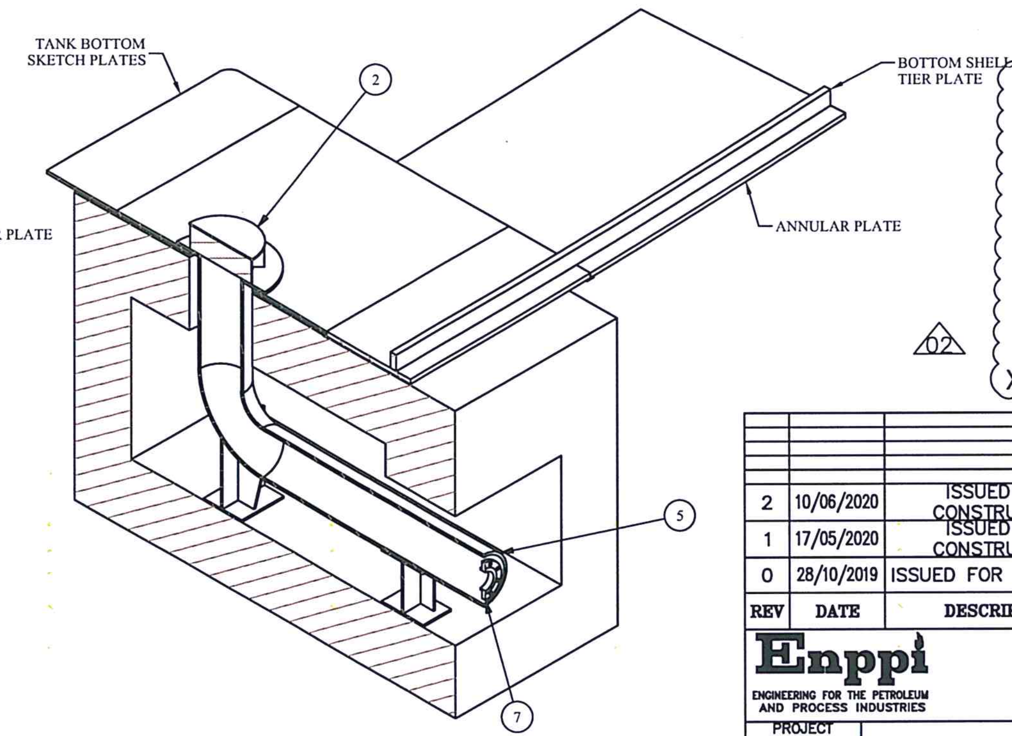
NOZZLE LOADS:

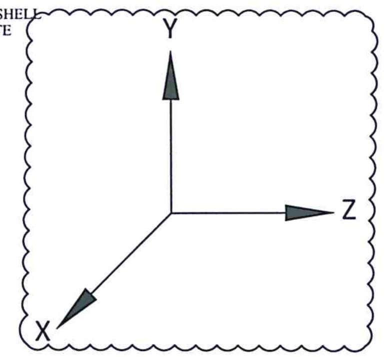
LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
10 Flange	Empty	Operating Load 1	-1,715	4,384	-10,857	-9,034	-1,509	3,158
		Operating Load 2	-3,269	5,242	-15,355	-8,963	4,981	-5,929
		Operating Load 3	-521	4,033	-8,845	-8,620	-2,269	3,330
		Operating Load 4	-628	4,001	-7,997	-8,687	-2,417	3,386
		Sustained Load	95	-4,313	-45	-1,674	198	346
	Full	Operating Load 1	-1,549	5,445	-10,652	-13,421	-1,139	4,356
		Operating Load 2	-3,001	6,253	-14,293	-13,791	4,722	-7,638
		Operating Load 3	-519	5,099	-8,906	-12,973	-1,633	4,610
		Operating Load 4	-615	5,074	-8,273	-13,051	-1,743	4,658
		Sustained Load	83	-4,649	-115	-1,511	170	350

REACTION LOADS AT 12" WATER DRAIN OFF CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	1912	3443
Ps	13253	3856
D+Ps	15387	7245
D+Ps+T1	15387	7245
D+External nozzle loads	0	0
D+Ps+T1+External nozzle loads	11665	0



SECTION A-A
SCALE 1 : 26





REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

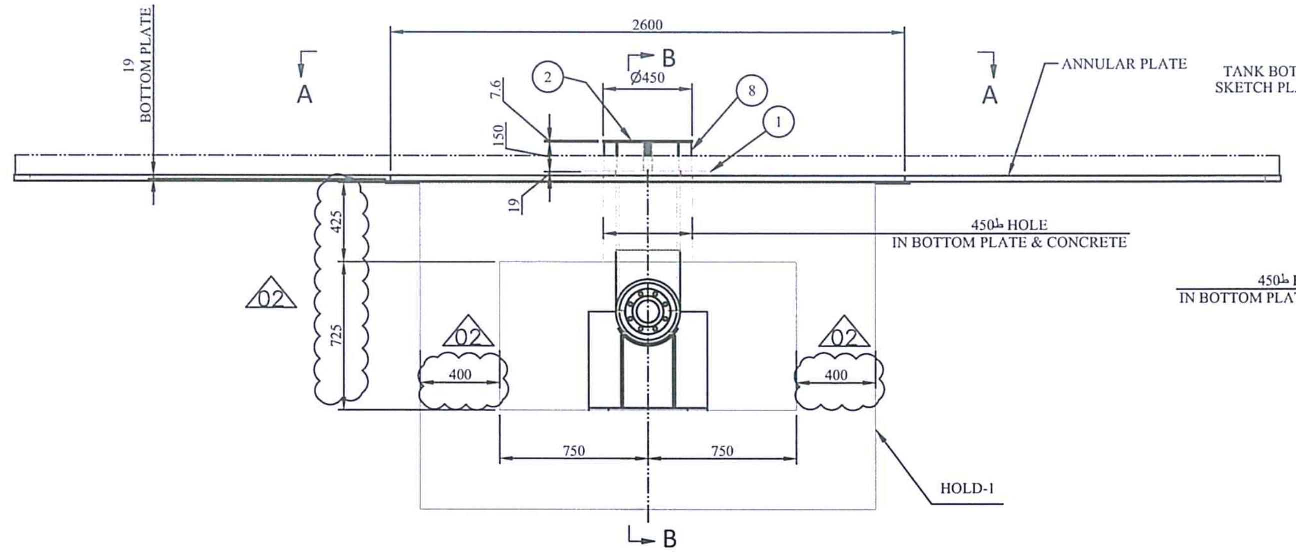
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHAKIER 1, RAS BADRAN MOD.1/2/3,
CLIENT	EGPC

CRUDE OIL STORAGE TANK

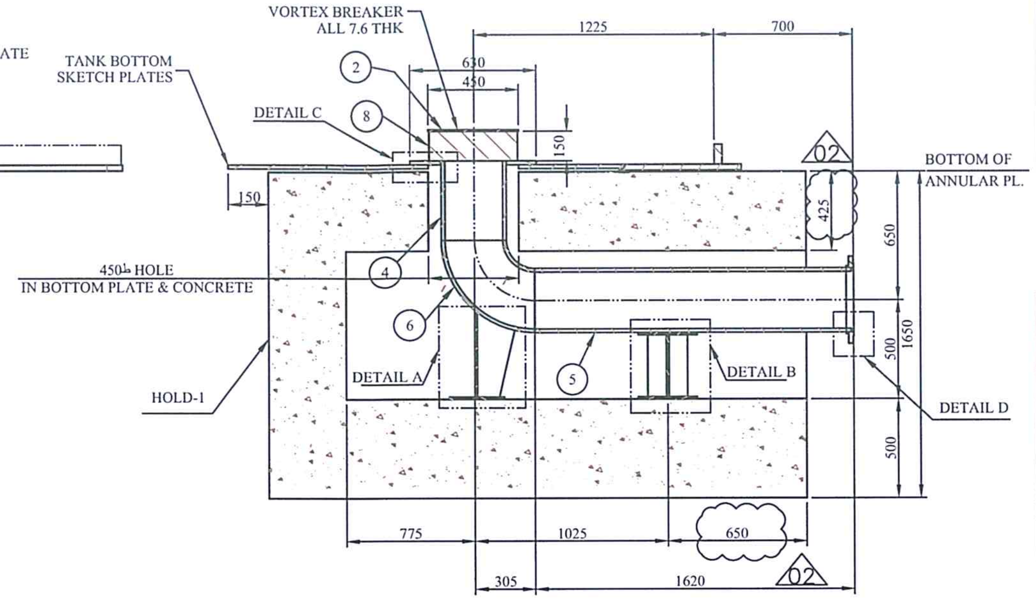
TANK I.D. 010–T–001, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05

Arrangement of 12" NP Water Drain ref. N10 and Drawoff Sump

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-014	1 OF 3	02



ELEVATION
SCALE 1 : 26



END ELEVATION
SECTION B-B
SCALE 1 : 26

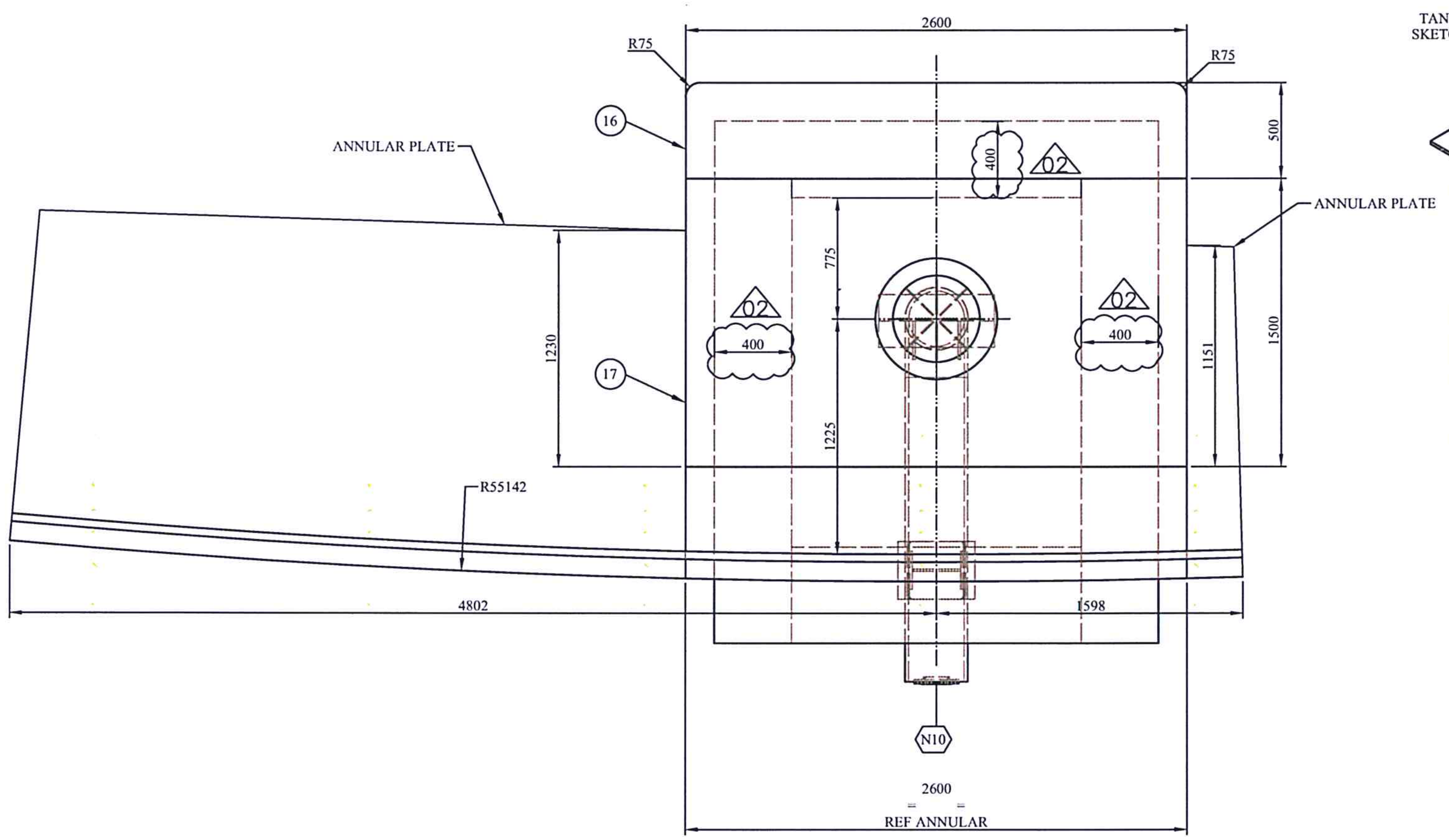
GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-015.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251-100-116-02-XX-D01-001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

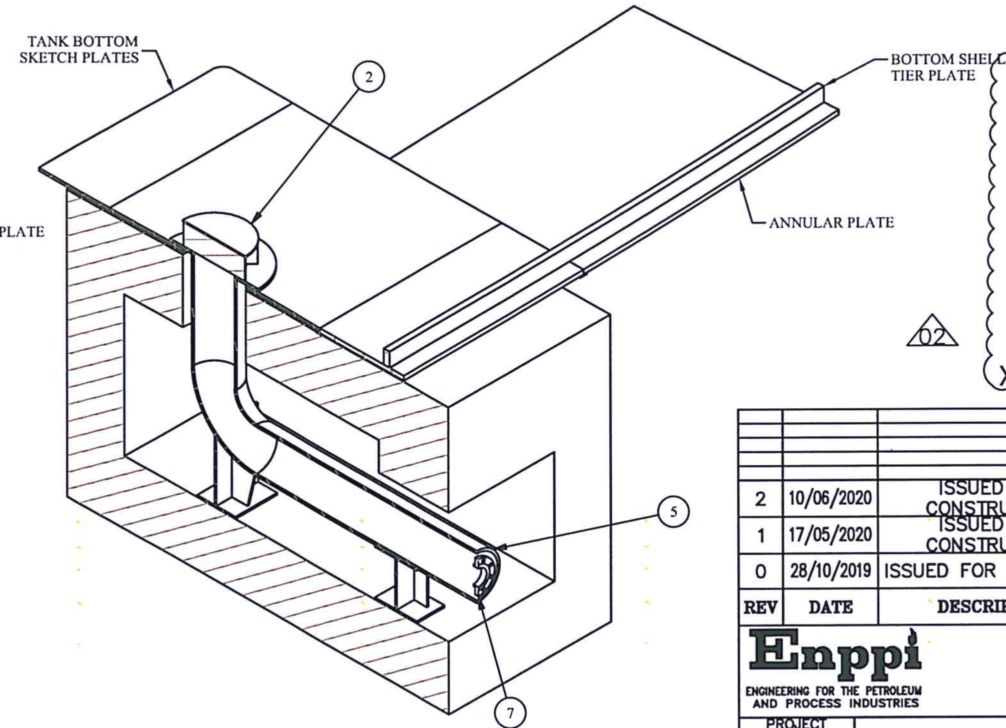
NOZZLE LOADS:

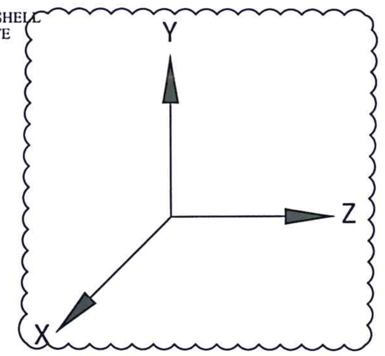
LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
10 Flange	Empty	Operating Load 1	-2,700	-3,900	-2,500	-1,700	-1,600	300
		Operating Load 2	-7,500	-3,000	-7,400	-2,500	-2,900	2,600
		Operating Load 3	1,200	-5,200	1,500	-2,400	500	600
		Operating Load 4	2,000	-3,600	2,200	-3,700	400	-200
		Sustained load	-100	-4,300	-100	-500	-200	800
	Full	Operating Load 1	-2,700	-4,500	-2,500	300	-1,600	400
		Operating Load 2	-8,100	-4,300	-8,000	300	-3,300	1,000
		Operating Load 3	1,200	-3,700	1,300	-2,400	300	800
		Operating Load 4	2,100	-3,400	2,200	-3,800	400	300
		Sustained Load	-200	-4,500	-100	-400	-200	800

REACTION LOADS AT 12" WATER DRAIN OFF CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	1912	3443
Ps	13253	3856
D+Ps	15387	7245
D+Ps+T1	15387	7245
D+External nozzle loads	981	10531
D+Ps+T1+External nozzle loads	13350	13516



SECTION A-A
SCALE 1 : 26





REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

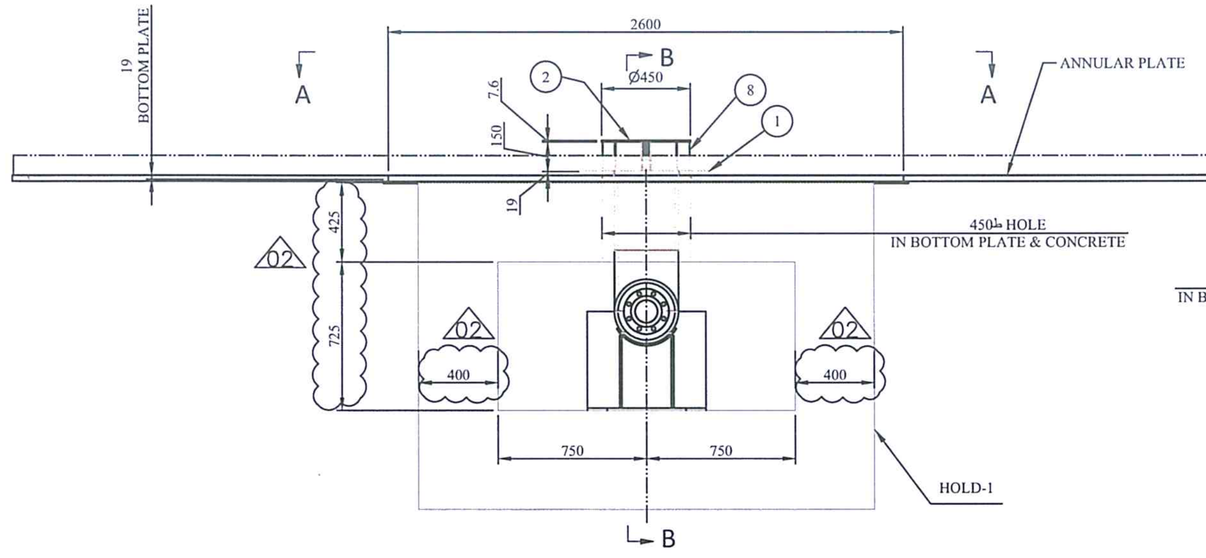
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHAKIER 2/3/4/5, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

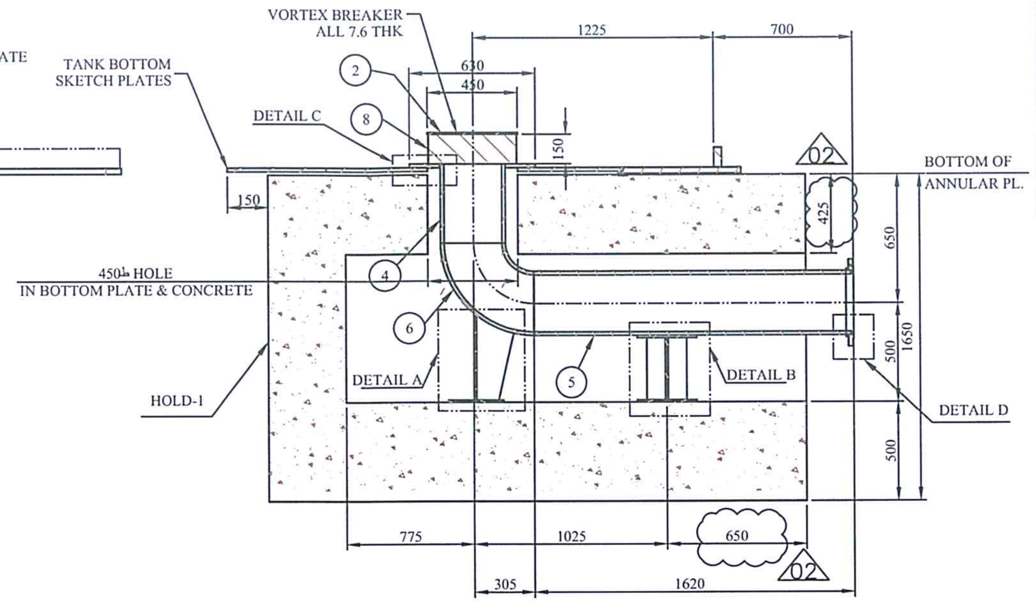
TANK I.D. 010-T-002/003/004/005, 070-T-01/02/03/04/05/06

Arrangement of 12" NP Water Drain ref. N10 and Drawoff Sump

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-014	2 OF 3	02



ELEVATION
SCALE 1 : 26



END ELEVATION
SECTION B-B
SCALE 1 : 26

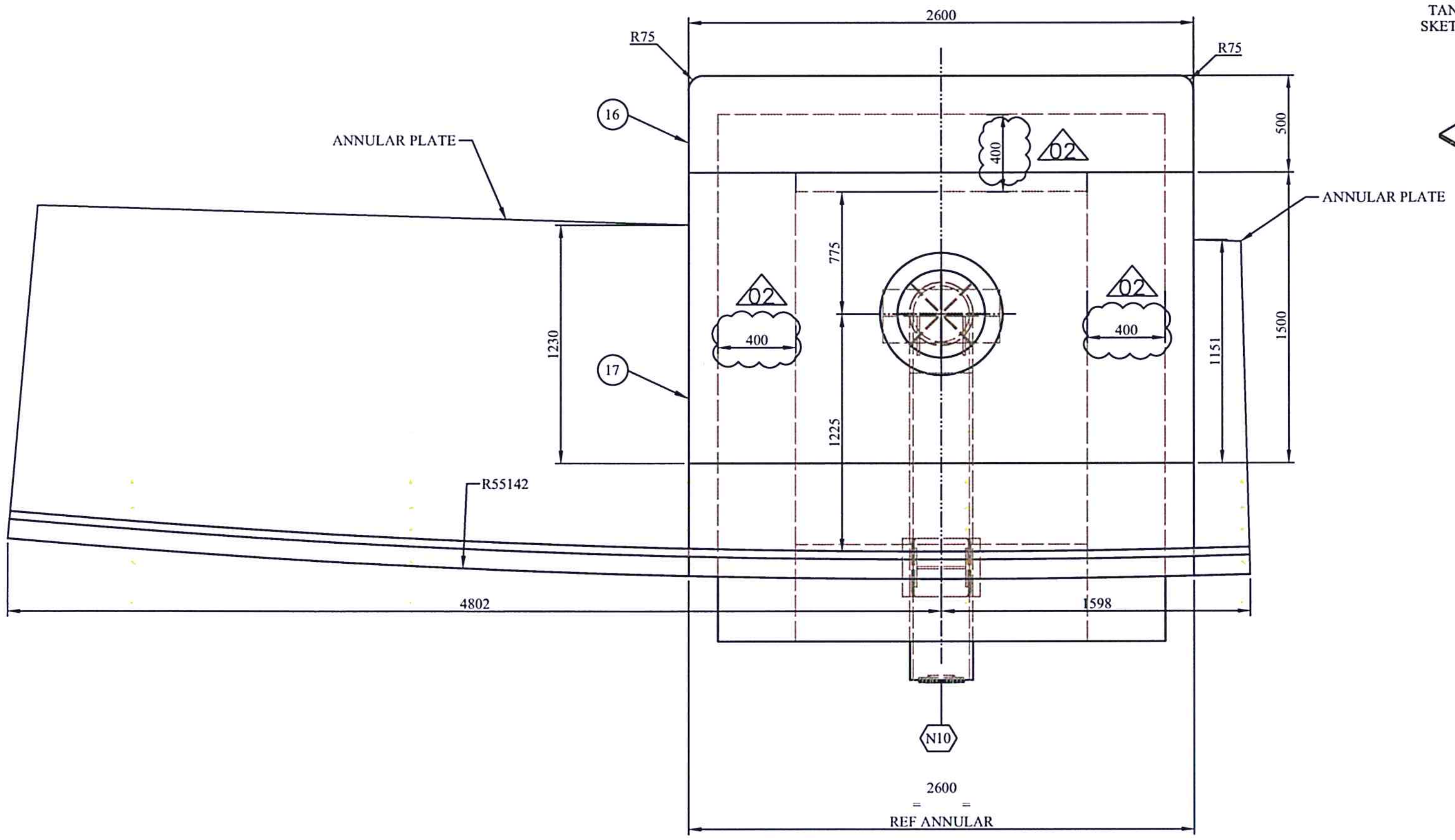
GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-015.
2. FOR LOCATION OF ANNULAR & BOTTOM PLATES SEE ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
3. FOR DETAILS OF ANNULAR PLATES SEE DRAWING NO. 1251-100-116-02-XX-D01-001.
4. ASSEMBLY TO BE POST WELD HEAT TREATED.

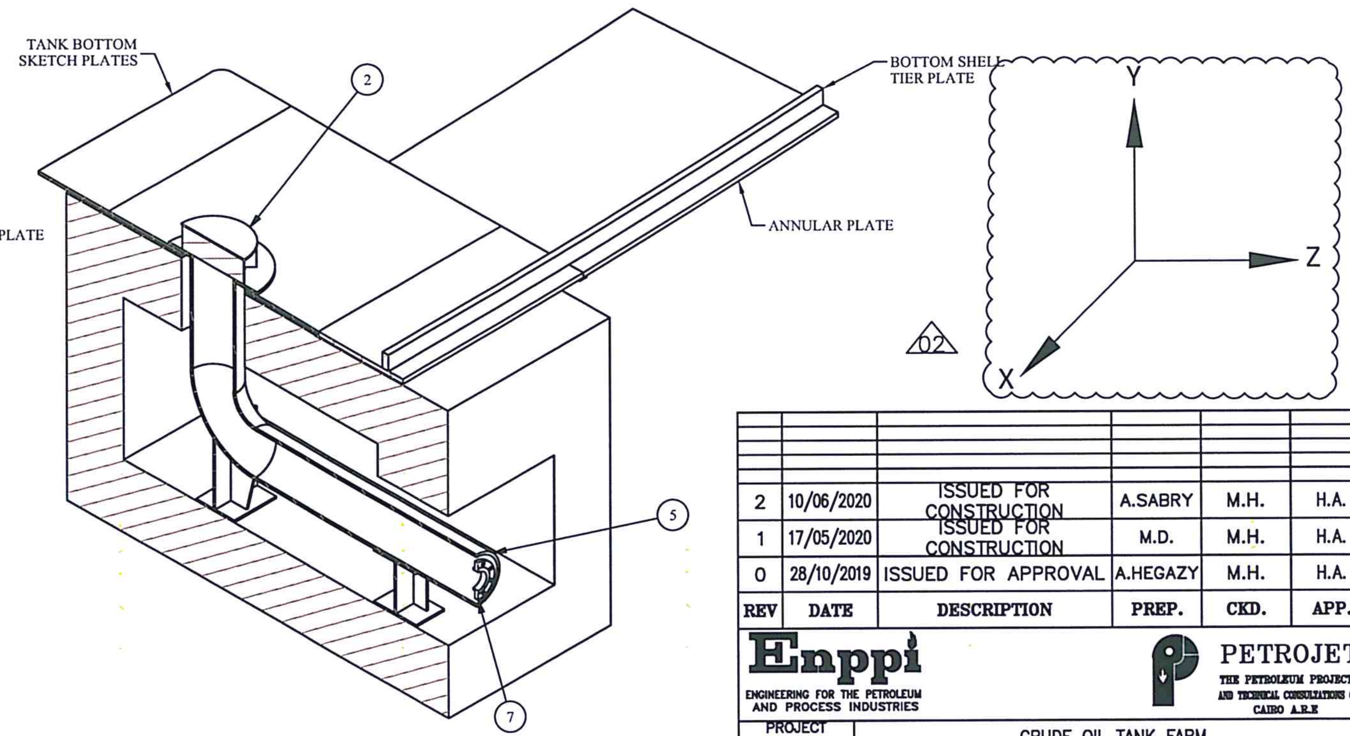
NOZZLE LOADS:

LOCATION	TANK STATE	CASE	FX, N.	FY, N.	FZ, N.	MX, N.m	MY, N.m	MZ, N.m
30 Flange	Empty	Operating Load 1	360	-4,620	-2,970	-3,000	-10	-630
		Operating Load 2	480	-3,760	1,350	-170	5,320	-5,540
		Operating Load 3	-440	-2,820	3,460	-2,170	110	-160
		Operating Load 4	-630	-1,900	4,350	-3,160	360	80
		Sustained Load	-90	-3,900	-2,050	-1,130	-260	-420
	Full	Operating Load 1	550	-5,920	-2,720	130	20	-490
		Operating Load 2	380	-3,940	1,680	600	5,500	-7,610
		Operating Load 3	-440	-2,790	3,500	-2,170	140	-230
		Operating Load 4	-650	-1,830	4,390	-3,150	380	-50
		Sustained Load	-40	-4,020	-2,310	-930	-210	-400

REACTION LOADS AT 12" WATER DRAIN OFF CONNECTION		
	ELBOW SUPPORT - Fy (N)	PIPE NOZZLE REST SUPPORT - Fy (N)
D	1912	3443
Ps	13253	3856
D+Ps	15387	7245
D+Ps+T1	15387	7245
D+External nozzle loads	2456	8112
D+Ps+T1+External nozzle loads	15446	12195



SECTION A-A
SCALE 1 : 26



REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: AGROOD MOD.1/2
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 030-T-01/02/03/04, 031-T-01/02

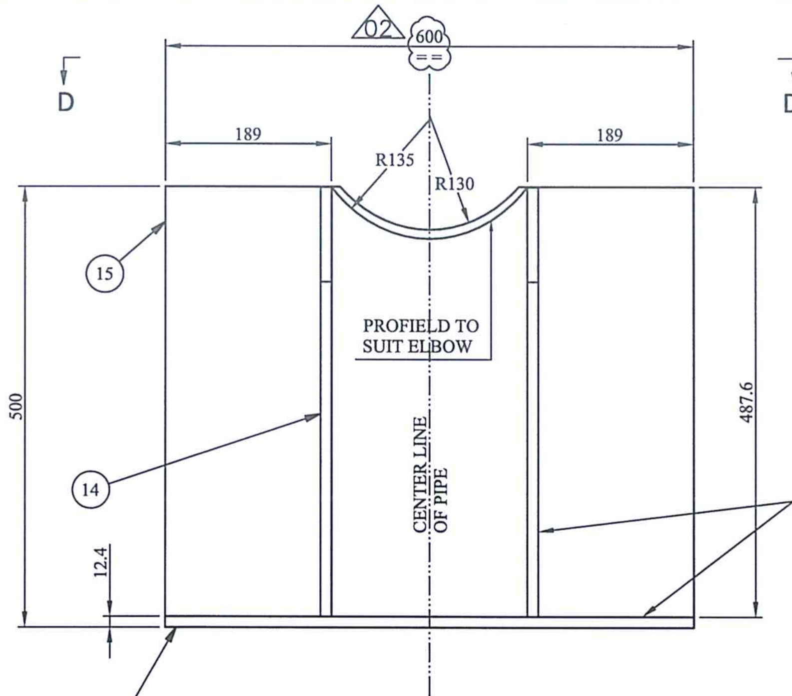
Arrangement of 12" NP Water Drain ref. N10 and Drawoff Sump

DIMS. IN mm
FORMAT: A2

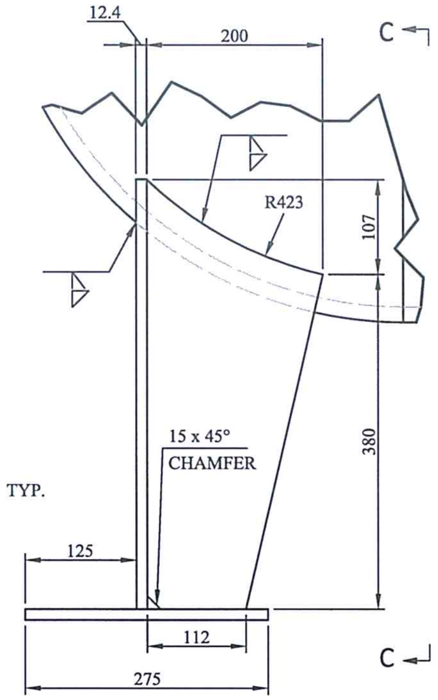
DRAWING NO.: 1251-100-116-02-XX-D01-014

SHEET No.: 3 OF 3

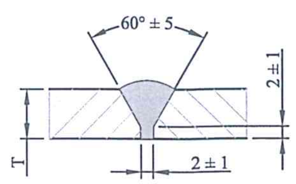
REVISION: 02



SECTION C-C
ELEVATION ON NEAR SLIDING SUPPORT
SCALE 1 : 7



DETAIL A
SCALE 1 : 7



PIPE BUTT
WELD DETAIL

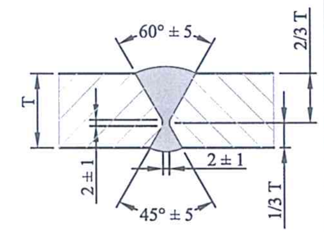
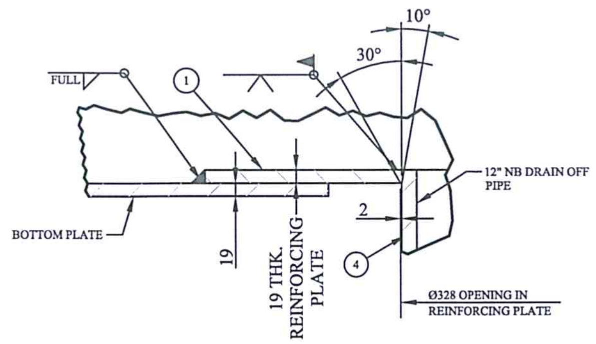
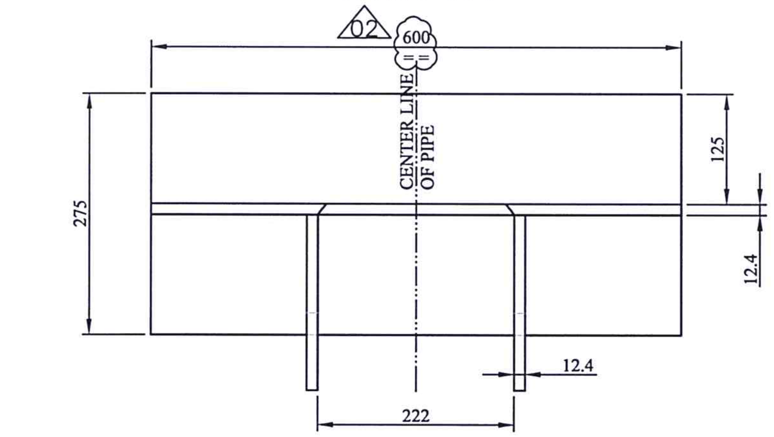


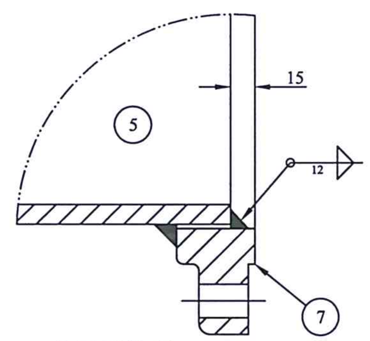
PLATE BOTTOM
WELD DETAIL BUTT



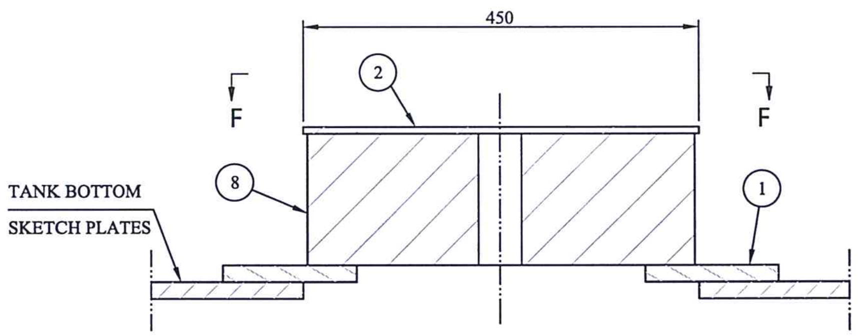
DETAIL C
SCALE 1 : 6



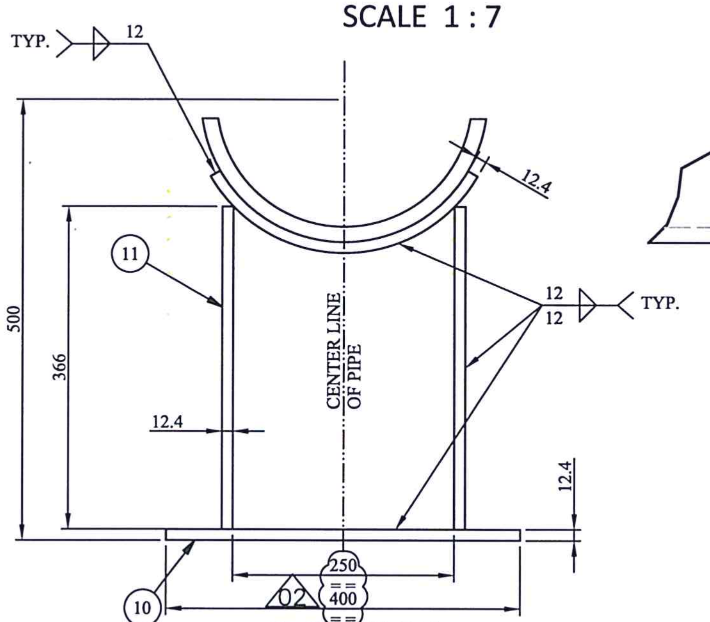
PLAN
SECTION D-D
SCALE 1 : 7



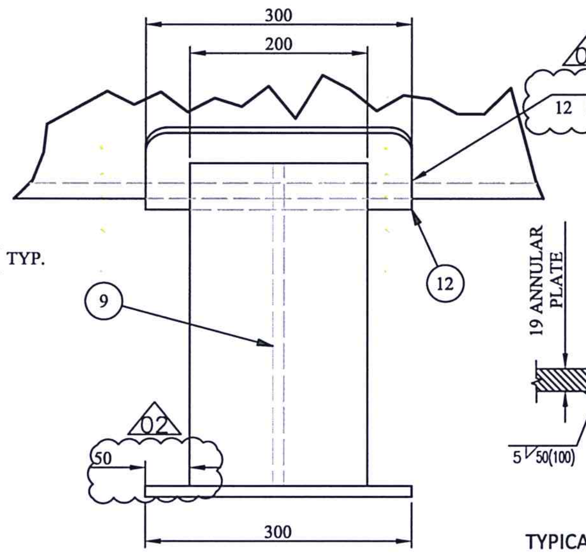
DETAIL D
SCALE 1 : 7



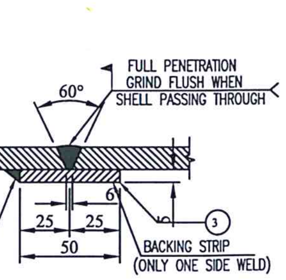
ELEVATION ON VORTEX BREAKER
SCALE 1 : 7



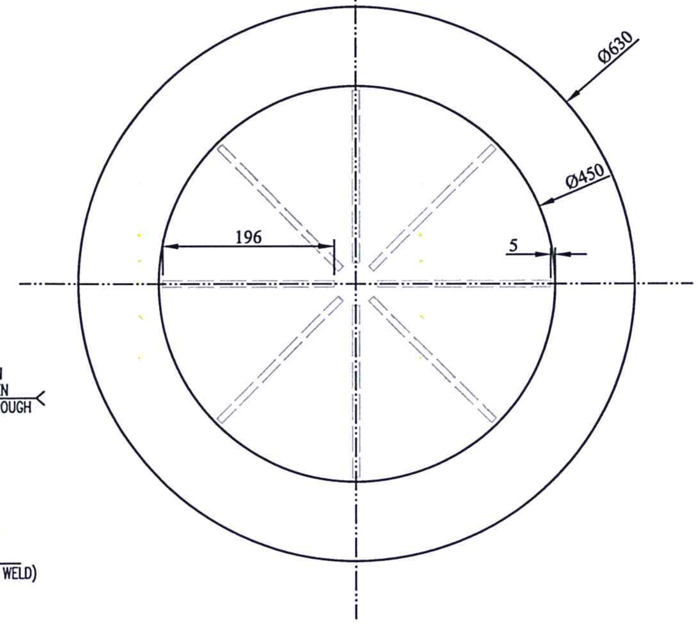
SECTION E-E
ELEVATION ON FRONT SLIDING SUPPORT
SCALE 1 : 7



DETAIL B
SCALE 1 : 7



TYPICAL ANNULAR BOTTOM
PLATE BUTT WELD
SCALE 1 : 15



SECTION F-F
SCALE 1 : 7

BILL OF MATERIAL

ITEM NO.	QTY.	DESCRIPTION	TECHNICAL CHARACTERISTICS	MATERIAL	WEIGHT (Kg)
1	1	Circular Plate	O.D.=630, Opening Diameter=328, THK.=19	A537 CL 2	33.90
2	1	Circular Plate	PL. O.D.=450, THK.=7.6	A283 Gr.C	9.50
3	1	BACK STRIP	PL.50x5 LENGTH= 4364	A283 Gr.C	8.56
4	1	Seamless Pipe	NPS 12, SCH. 80, Length=314	A106 GR B	41.46
5	1	Seamless Pipe	NPS 12, SCH. 80, Length=1580	A106 GR B	208.60
6	1	Elbow	NPS 12, SCH. 80, 90° SR,Acc. to ASME B 16.28	A234WPB	63.30
7	1	Flange	NPS 12, Slip on, RF ,Class=150, Acc. to ASME B16.5 2016	A105	27.50
8	8	Rib Plate	PL. Width=150, Height=196, THK.=7.6	A283 Gr.C	14.00
9	1	Web Plate	PL. Length=366, Width=250, THK.=12.4	A537 CL 1	8.91
10	1	Base Plate	PL. Length=400, Width=300, THK.=12.4	A537 CL 1	11.70
11	2	Rib Plate	PL. Length=366.13, Width=200, THK.=12.4	A537 CL 1	14.30
12	1	Wear Plate	PL. Length=352.21, Width=300, THK.=12.4	A537 CL 1	10.20
13	1	Base Plate	PL. Length=600, Width=275, THK.=12.4	A537 CL 1	16.05
14	2	Rib Plate	PL. Length=487.6, Width=200, THK.=12.4	A537 CL 1	13.17
15	1	Web Plate	PL. Length=487.6, Width=600, THK.=12.4	A537 CL 1	27.71
16	1	BOTTOM PLATE	PL.2600x500x19	A537 CL 2	193.90
17	1	BOTTOM PLATE	PL.2600x1500x19	A537 CL 2	581.69
			Total Weight (Kg)		1284.44

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–014.
2. FOR BOTTOM PLATES WELDING DETAILS REFER TO DRAWING NO. 1251–100–116–02–XX–D01–001.
3. ALL PLATES TO BE 12.4mm THK.
4. ALL WELDS TO BE 12mm UNLESS OTHERWISE NOTED.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	10/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
1	17/05/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	28/10/2019	ISSUED FOR APPROVAL	A.HEGAZY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

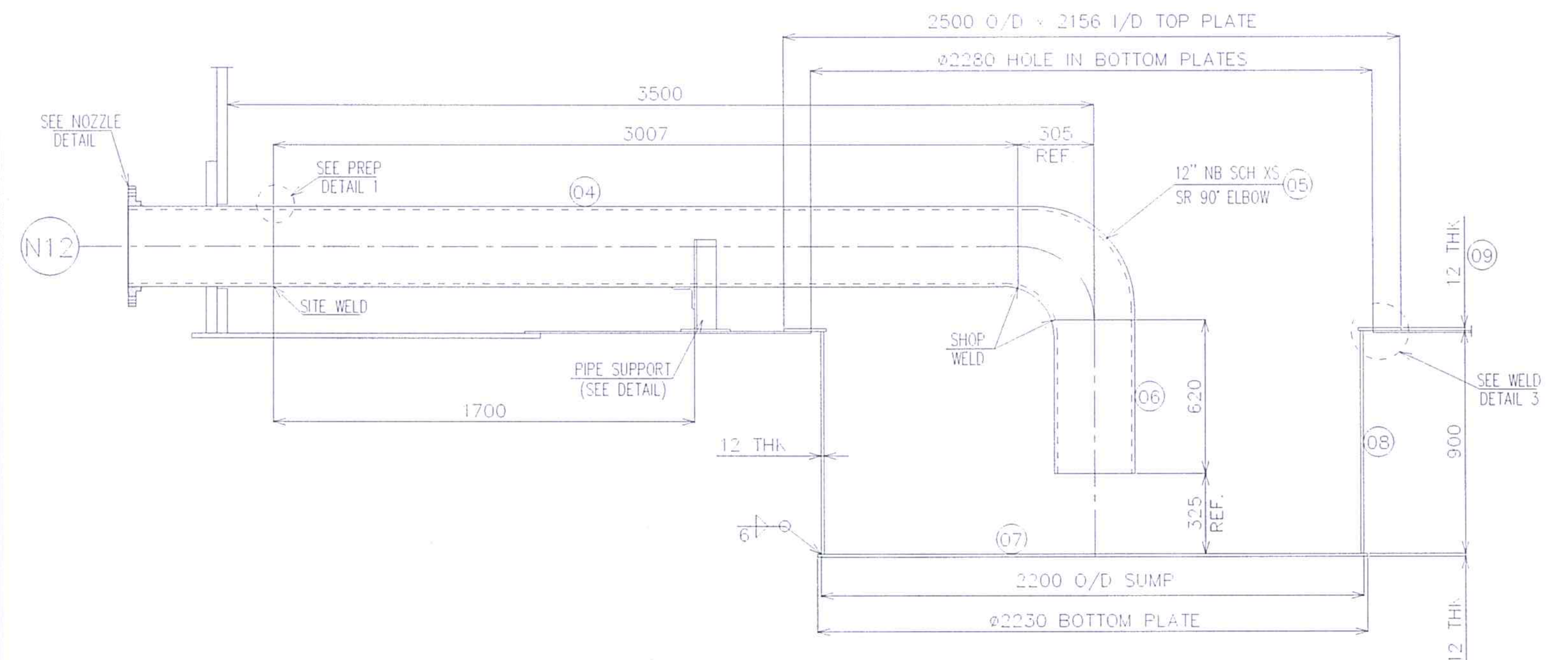
CLIENT: EGPC

CRUDE OIL STORAGE TANK

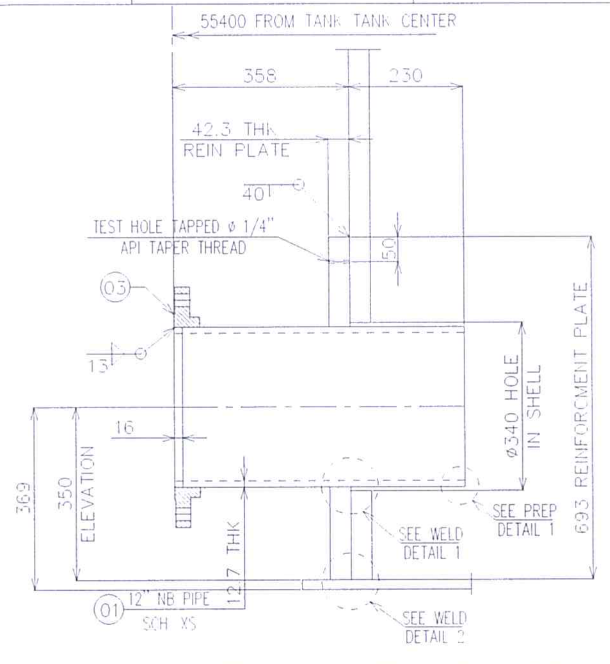
TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Detail of 12" NP Water Drain ref. N10

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-015 | SHEET No. 1 OF 1 | REVISION 02



DETAILS OF 12"NB BOTTOM DRAW-OFF INTERNAL PIPE WORK & SUMP
1:20



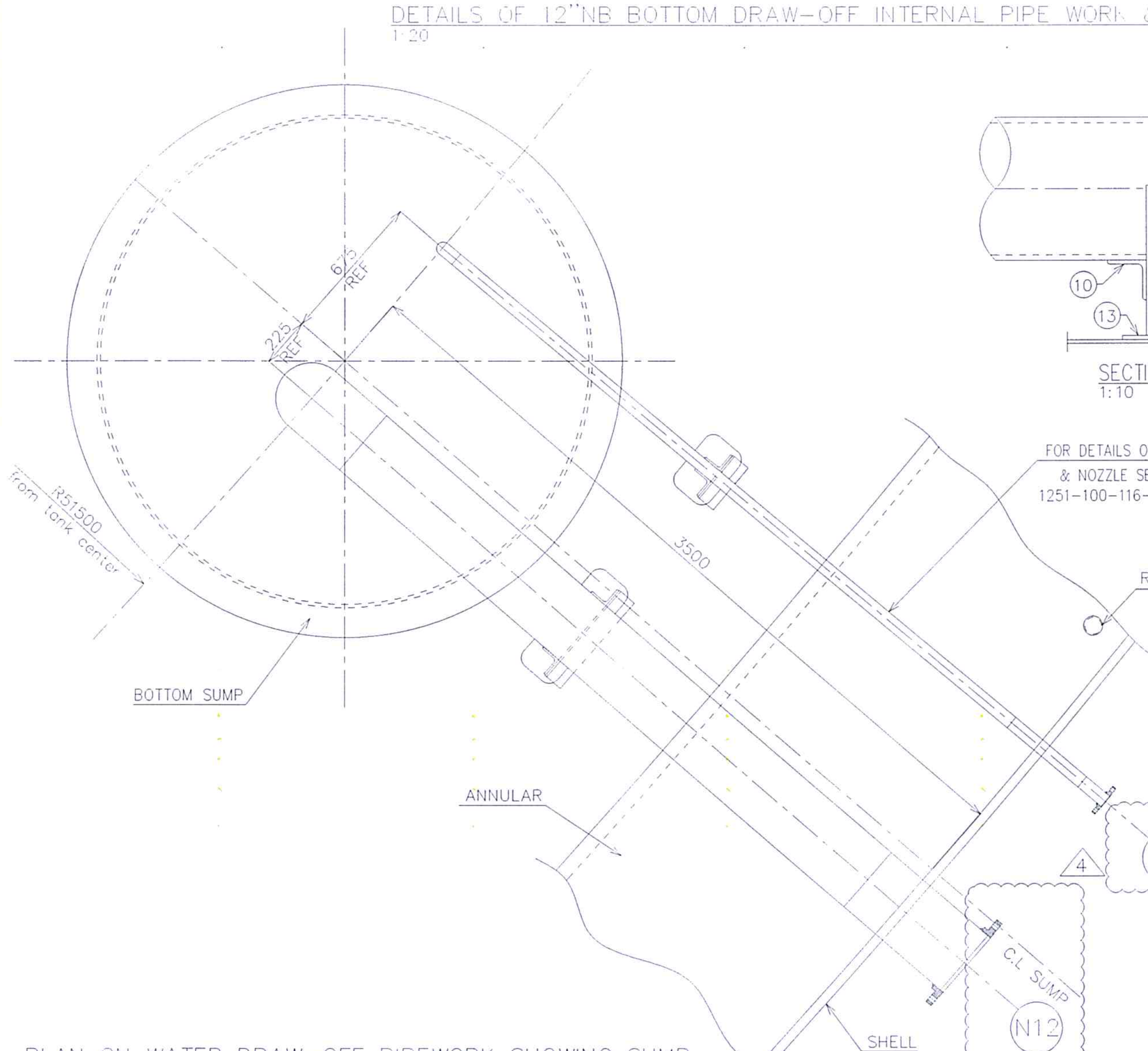
DETAIL OF 12" BOTTOM DRAW-OFF SUMP NOZZLE
1:10 (1-off required "N12")

GENERAL NOTES

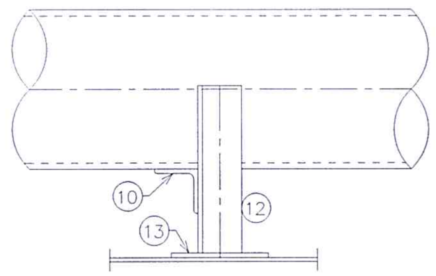
1. FOR LOCATION OF SHELL FITTINGS AND DRAW OFF SUMP SEE SHELL ORIENTATION 1251-100-116-02-XX-B01-002
2. FACING FINISH OF FLANGE & FLANGED COMPONENTS SHALL BE 125 – 250 (AARH)
3. SHELL CONNECTION SHALL BE SHOP INSTALLED. THE COMPLETED ASSEMBLY SHALL BE POST WELD HEAT TREATED IN ACCORDANCE WITH API-650.
4. FLANGE BOLT HOLES TO STRADDLE VERTICAL CENTERLINE
5. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001
6. THE REINFORCING PLATES ON THE SHELL SHALL BE LEAK TESTED USING AIR AT 1 BAR(G) AND CHEMICALLY INACTIVE SOAP SUDS.
7. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA 5.7.4.3 IN API 650

PART LIST (FOR 1-OFF TANK)

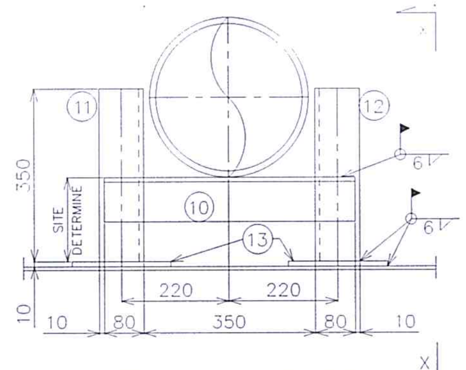
ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	1	ASTM A106 GR. B	PIPE BODY : 12"NB SCH XS x 572 LG
2	-	1	ASTM A537 CL.2	REINF. PLATE : 685 x 42.3 THK x 693 (SHAPED)
3	-	1	ASTM A105	FLANGE : 12"NB 150# RF SO
4	-	1	ASTM A106 GR. B	PIPE : 12"NB SCH XS x 3007 LG
5	-	1	ASTM A106 GR. B	90° ELBOW : 12"NB SCH XS SR
6	-	1	ASTM A106 GR. B	PIPE : 12"NB SCH XS x 620 LG
7	-	1	ASTM A537 CL.1	BOTTOM PLATE : Ø2230 x 12 THK
8	-	1	ASTM A537 CL.1	BODY PLATE : 900 x 12 THK x 6874 LG (ROLLED TO 2176 I.D)
9	-	1	ASTM A537 CL.1	TOP PLATE : 2500 O.D x 2156 I.D x 12THK
10	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 510 LG
11	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 350 LG
12	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 350 LG
13	2	-	ASTM A283 GR. C	BASE PLATE : Ø200 x 10 THK



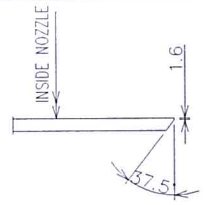
PLAN ON WATER DRAW-OFF PIPEWORK SHOWING SUMP
1:20



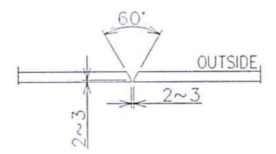
SECTION (X–X)
1:10



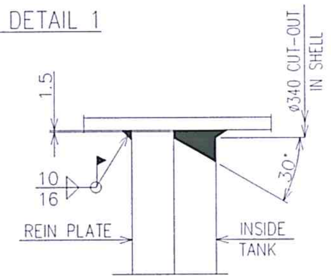
DETAIL OF PIPE SUPPORT
1:10 (1-off required)



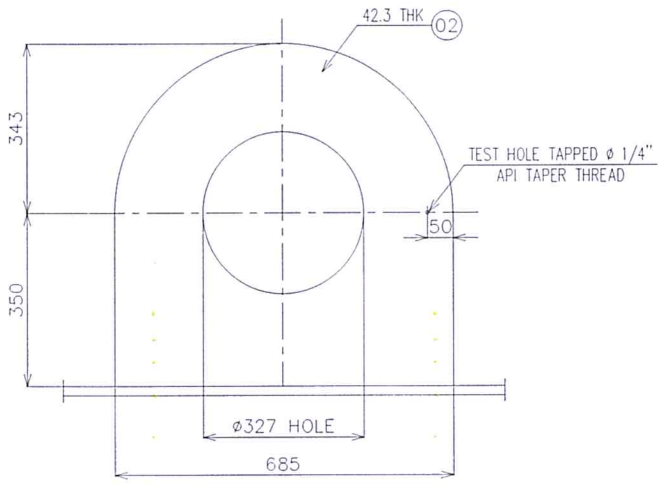
PREP DETAIL 1
1:5



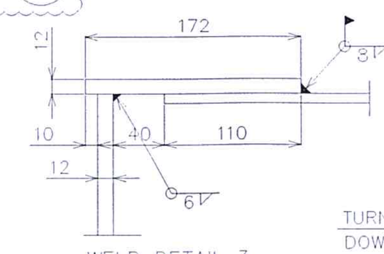
BUTT JOINT IN SUMP BODY
1:5



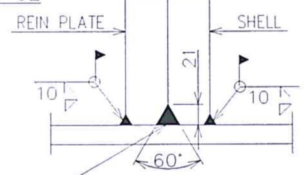
WELD DETAIL 1
1:5



DETAIL OF ITEM 02
1:10



WELD DETAIL 3
1:5



TURN ASSEMBLY. SHOP WELD DOWNHAND & GRIND FLUSH

WELD DETAIL 2
1:5

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
3	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	25/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

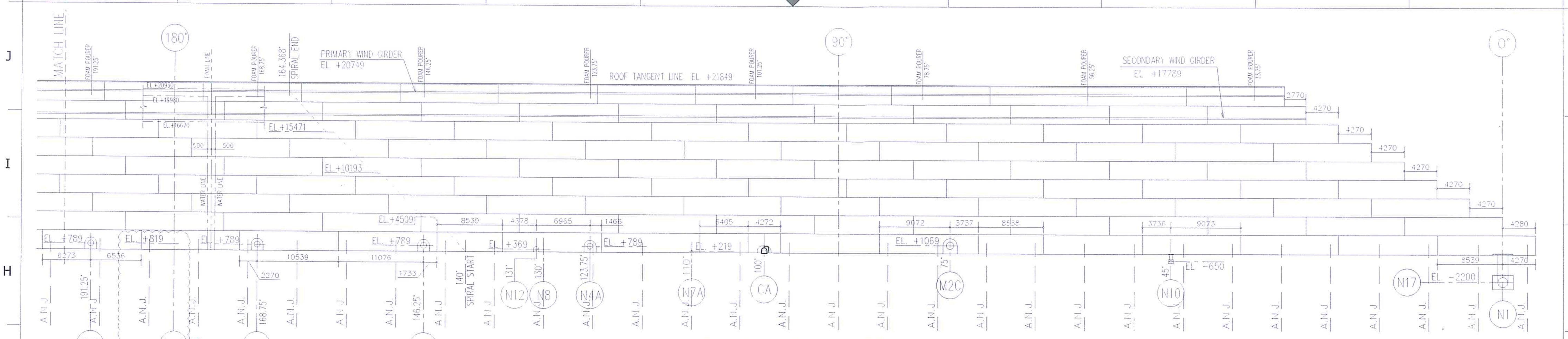
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD 1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL-ALL TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

DETAILS OF 12" BOT. DRAW-OFF NOZZLE & SUMP

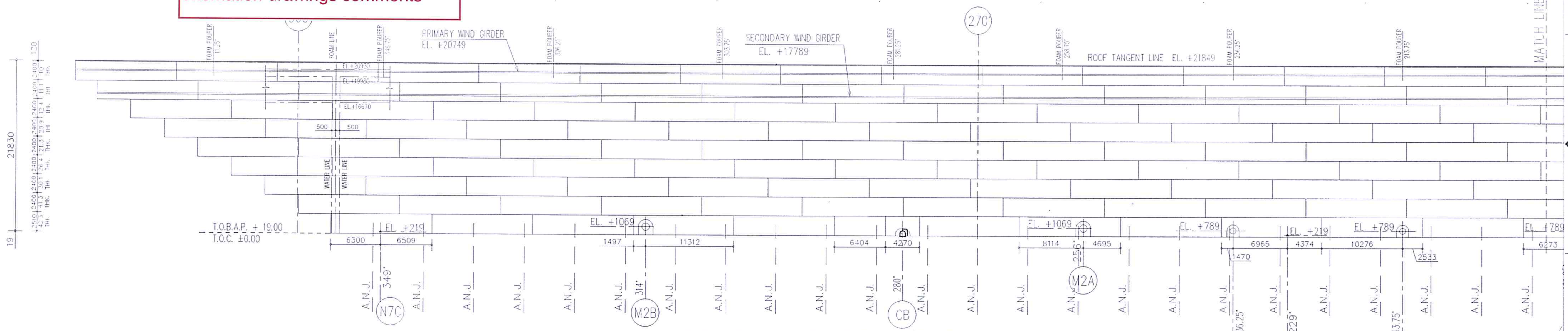
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-016	1 OF 1	4



SHELL PLATES ORIENTATION (PART-1)

(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

comply the orientation angle with orientation drawings comments



SHELL PLATES ORIENTATION (PART-2)

(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

GENERAL NOTES:-

1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.)
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR ORIENTATION OF RAS BADRAN TANK 020-T-01 SEE SHEET 2/3.
6. FOR ORIENTATION OF RAS BADRAN TANK 020-T-02 SEE SHEET 3/3.
7. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO. 1251-100-116-02-XX-D99-018
8. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020

BOTTOM & SHELL FITTING

NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52"	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30"	150# RF	789	55300	MIXER	123.75°
N4B	1	30"	150# RF	789	55300	MIXER	146.25°
N4C	1	30"	150# RF	789	55300	MIXER	168.75°
N4D	1	30"	150# RF	789	55300	MIXER	191.25°
N4E	1	30"	150# RF	789	55300	MIXER	213.75°
N4F	1	30"	150# RF	789	55300	MIXER	236.25°
N7A	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2"	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12"	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12"	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2"	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36"	API 650	1069	55300	MANWAY	256°
M2B	1	36"	API 650	1069	55300	MANWAY	314°
M2C	1	36"	API 650	1069	55300	MANWAY	75°
CA	1	36x48"	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48"	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	180°

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-B01-003.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD 1/2, RAS GHARIB

CLIENT: EGPC

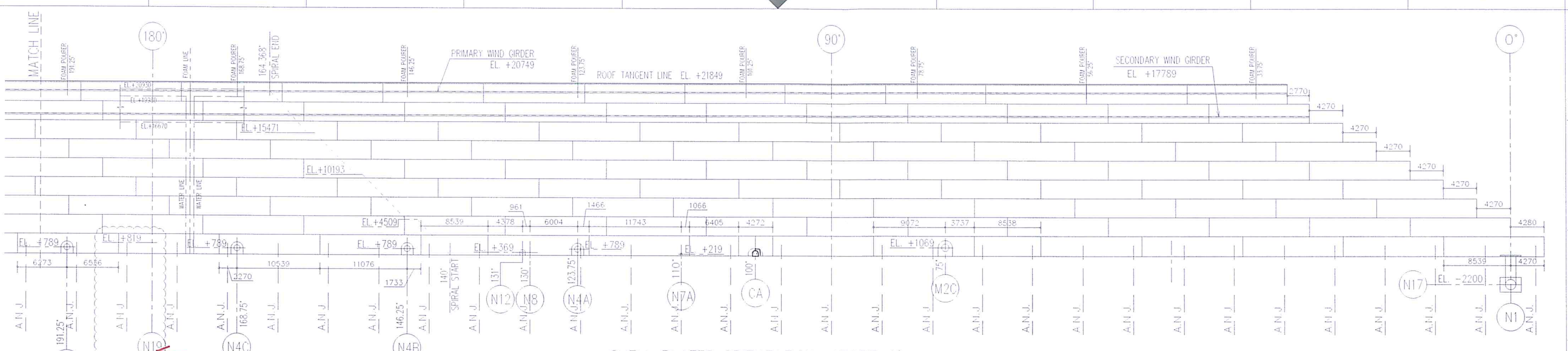
Crude Oil Storage Tanks

TANK I.D. 010-T-01/02/03/04/05, 020-T-03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Shell Plates Development

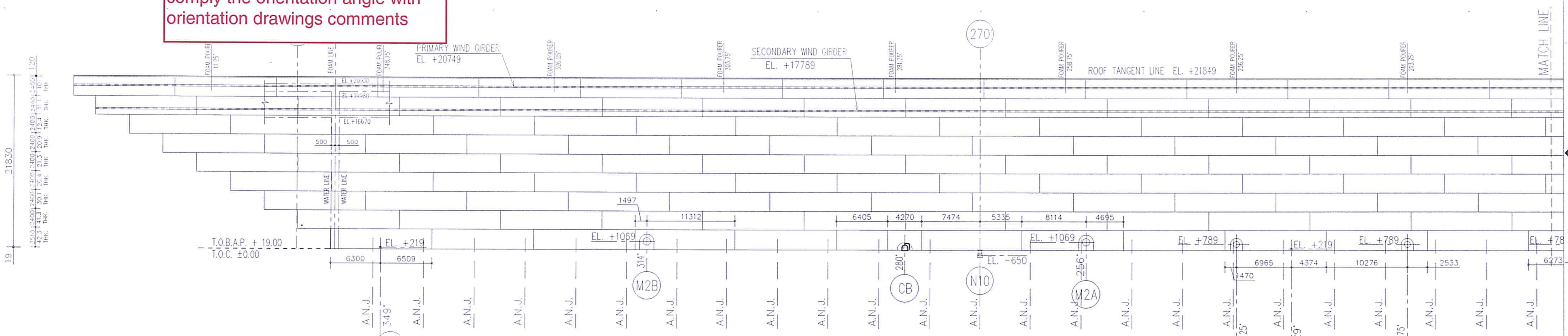
DIMS: IN mm | FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D01-017 | SHEET No.: 1 / 3 | REVISION: 3



SHELL PLATES ORIENTATION (PART-1)
(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

comply the orientation angle with orientation drawings comments



SHELL PLATES ORIENTATION (PART-2)
(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

GENERAL NOTES:-

1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P.).
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO 1251-100-116-02-XX-D99-018.
6. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020

BOTTOM & SHELL FITTING

NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52"	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30"	150# RF	789	55300	MIXER	123.75°
N4B	1	30"	150# RF	789	55300	MIXER	146.25°
N4C	1	30"	150# RF	789	55300	MIXER	168.75°
N4D	1	30"	150# RF	789	55300	MIXER	191.25°
N4E	1	30"	150# RF	789	55300	MIXER	213.75°
N4F	1	30"	150# RF	789	55300	MIXER	236.25°
N7A	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2"	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12"	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12"	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2"	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36"	API 650	1069	55300	MANWAY	256°
M2B	1	36"	API 650	1069	55300	MANWAY	314°
M2C	1	36"	API 650	1069	55300	MANWAY	75°
CA	1	36x48"	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48"	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	180°

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-B01-003.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD. 1
CLIENT: EGPC

Crude Oil Storage Tanks

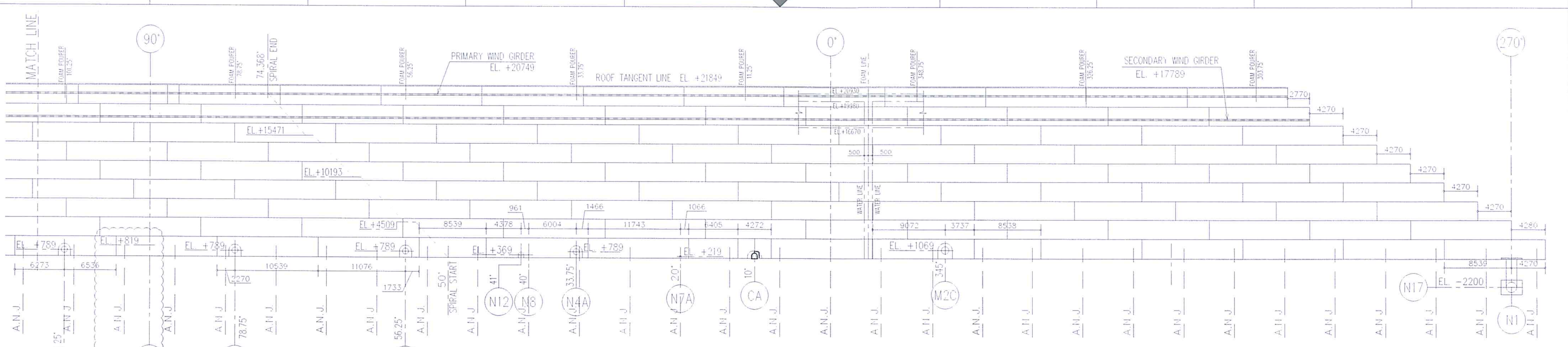
TANK I.D. 020-T-01

Shell Plates Development

DIMS. IN mm
FORMAT: A2

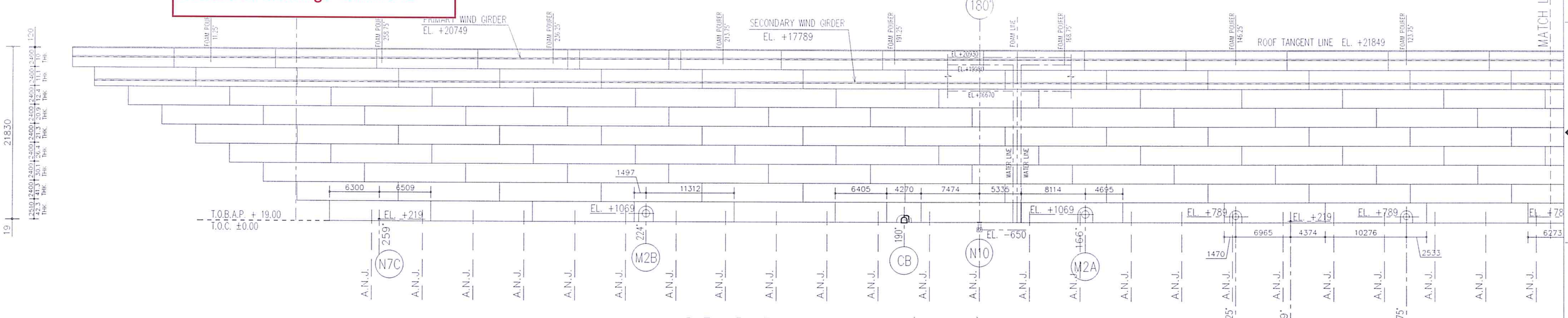
DRAWING NO.:
1251-100-116-02-XX-D01-017

SHEET No. 2 / 3
REVISION 3



SHELL PLATES ORIENTATION (PART-1)
(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

comply the orientation angle with orientation drawings comments



SHELL PLATES ORIENTATION (PART-2)
(ARC DIMENSIONS ARE ON OUTSIDE OF COURSE 1 SHELL PLATES 1° = 960.6694m)
1:350

GENERAL NOTES:-

1. ALL DIM. ARE IN mm UNLESS OTHERWISE NOTED.
2. PROJECTION OF SHELL NOZZLES TO BE MEASURED FROM TANK CENTER LINE.
3. ALL ELEVATIONS ARE MEASURED FROM BOTTOM OF ANNULAR PLATE (B.O.A.P).
4. SHELL NOZZLE PROJECTIONS ARE MEASURED ON CENTER LINE OF NOZZLE.
5. FOR WATER SPRAY/FOAM SYSTEM REFER TO DWG. NO. 1251-100-116-02-XX-D99-018.
6. FOR FOAM RING DETAIL REFER TO DWG. NO. 1251-100-116-02-XX-D99-020.

BOTTOM & SHELL FITTING

NOZZLE REF.	NO. OFF	SIZE	RATING FACING	ELEVATION	PROJECTION	DESCRIPTION	ANGLE
N1	1	52"	150# RF	-2200	57550	INLET & OUTLET	0°
N4A	1	30"	150# RF	789	55300	MIXER	123.75°
N4B	1	30"	150# RF	789	55300	MIXER	146.25°
N4C	1	30"	150# RF	789	55300	MIXER	168.75°
N4D	1	30"	150# RF	789	55300	MIXER	191.25°
N4E	1	30"	150# RF	789	55300	MIXER	213.75°
N4F	1	30"	150# RF	789	55300	MIXER	236.25°
N7A	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	110°
N7B	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	229°
N7C	1	4"	150# RF	219	55250	ROOF RAIN DRAIN	349°
N8	1	2"	150# RF	369	55250	SAMPLE CONNECTION	130°
N10	1	12"	150# RF	-650	55700	WATER DRAIN OFF	45°
N12	1	12"	150# RF	369	55400	BOTTOM DRAW OFF SUMP	131°
N17	1	2"	150# RF	SEE DWG	SEE DWG	RV INLET	0°
M2A	1	36"	API 650	1069	55300	MANWAY	256°
M2B	1	36"	API 650	1069	55300	MANWAY	314°
M2C	1	36"	API 650	1069	55300	MANWAY	75°
CA	1	36x48"	API 650	-	-	CLEAN OUT DOOR	100°
CB	1	36x48"	API 650	-	-	CLEAN OUT DOOR	280°
N19	1	2"	150# RF	819	55250	Pressure Transmitters (future)	90°

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DWG. NO. 1251-100-116-02-XX-B01-003.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	26/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS BADRAN MOD. 1
CLIENT: EGPC

Crude Oil Storage Tanks

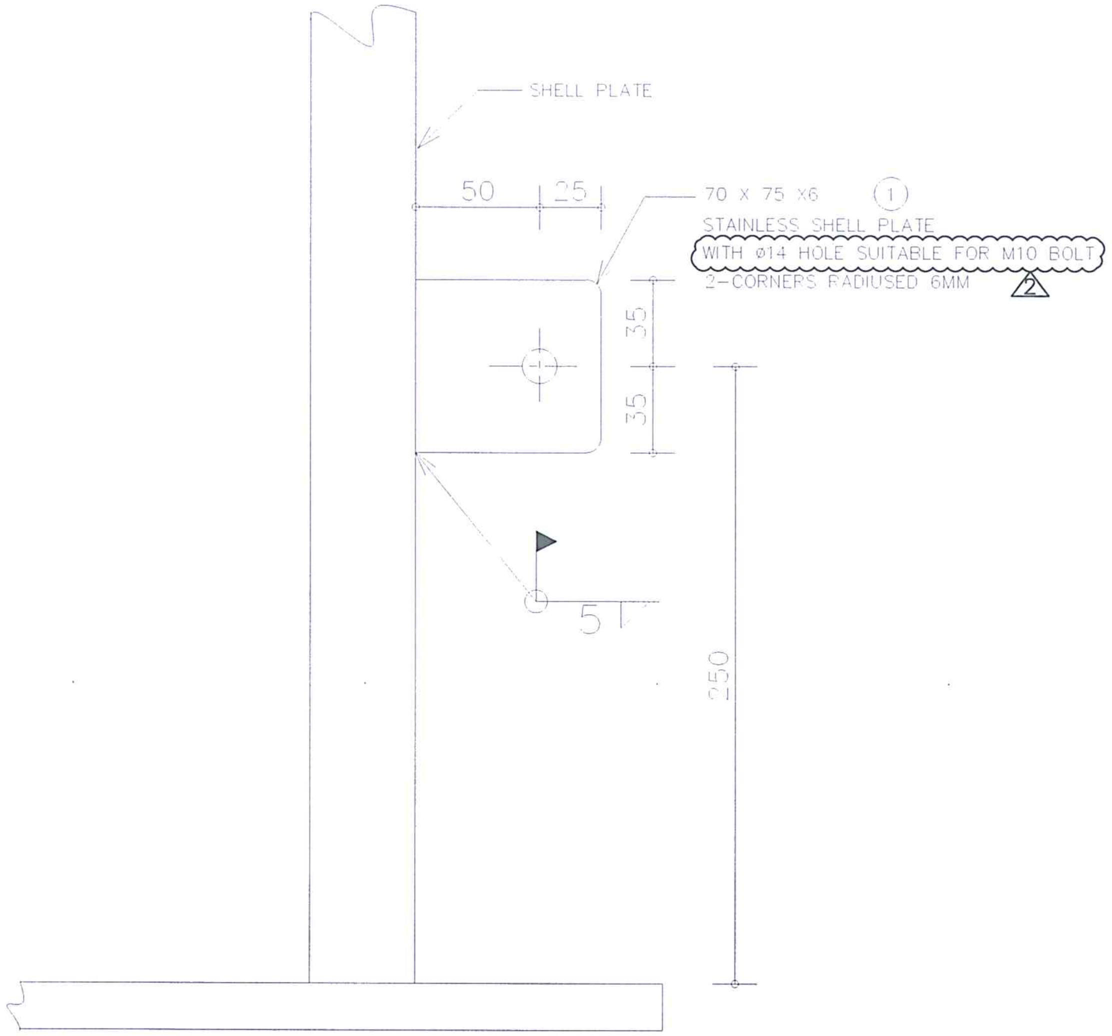
TANK I.D. 020-T-02

Shell Plates Development

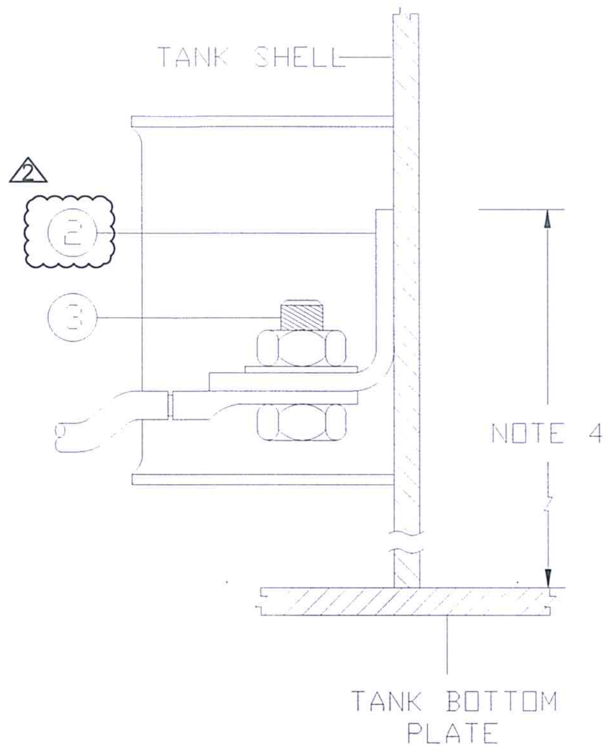
DIMS. IN mm
FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D01-017

SHEET No: 3 / 3
REVISION: 3



DETAIL OF EARTHING LUG
12 OFF REQUIED /TANK
1:2



CATHODIC PROTECTION LUG DETAILS

GENERAL NOTES

1. FOR LOCATIONS OF EARTHING LUGS SEE BOTTOM & SHELL ORIENTATION FOR TANKS DRAWINGS NO 1251-100-116-02-XX-B01-002
2. EARTHING LUGS DETAILS AS PRE API 650 11TH EDITION ADD.3
3. EARTHING LUGS SHALL NOT BE PAINTED
4. FOR CATHODIC PROTECTION DIMENSION REFER TO DRAWING NO. 1251-100-116-02-XX-D99-022

PARTS LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	12	ASTM A240 304 S.S.	LUG 70X75X6 WITH 1-14 DIA HOLE 2-CORNERS RADIUSED 6MM
2	4	ASTM A240 304 S.S.	LUG 150 x 50 x 8 (NOTE 4)
3	4	ASTM A240 304 S.S.	M8 HEX. HEAD BOLT (NOTE 4)

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.

PROJECT: CRUDE OIL TANK FARM

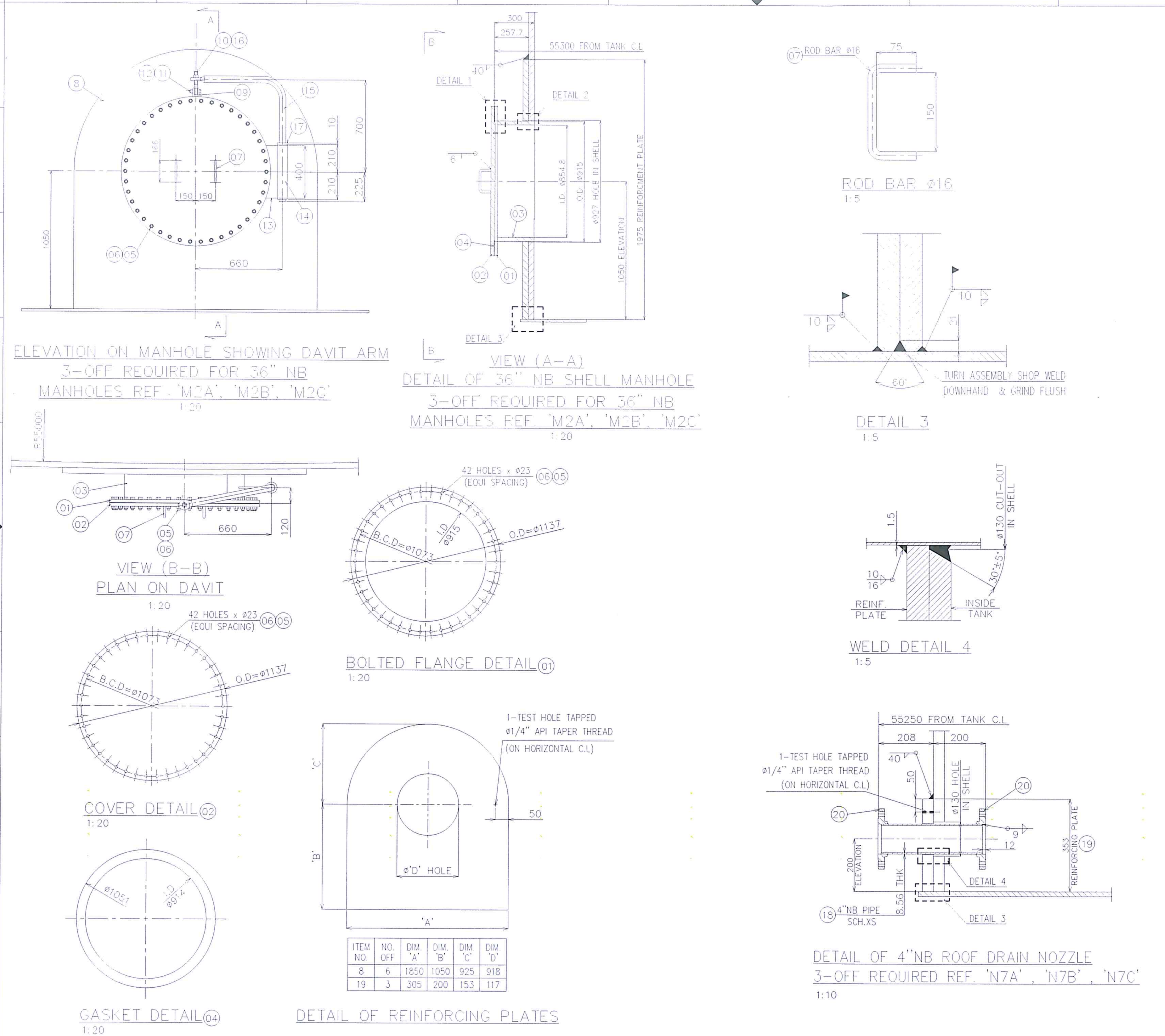
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Earthing Lugs

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-018	SHEET No 1 OF 1	REVISION 2



ITEM NO.	NO. OFF	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
8	6	1850	1050	925	918
19	3	305	200	153	117

GENERAL NOTES

1. FOR LOCATION OF SHELL MANHOLES SEE SHELL ORIENTATION 1251-100-116-02-XX-B01-002.
2. DAVIT BRACKET AND LUGS TO BE SHOP WELDED TO MANHOLE BODY & STRESS RELIEVED
3. ALL ELEVATIONS ARE FROM TOP SIDE OF THE BOTTOM PLATES.
4. ALL PROJECTION ARE MEASURED ON NOZZLE CENTERLINES.
5. ALL FITTING TO BE SHOP WELDED TO SHELL FITTING PLATES & STRESS RELIEVED EXCEPT 2" SAMPLE CONNECTION NOZZLE REF. 'N8'.
6. FLANGE BOLT HOLES TO STRADDLE VERTICAL CENTERLINE.
7. ALL SHELL CONNECTIONS 3" AND ABOVE SHALL BE SHOP INSTALLED
8. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING NO. 1251-100-116-02-XX-D01-020
9. FOR MIXER SUPPORT DETAILS REFER TO DWG. NO. 1251-100-116-02-XX-D01-021
10. FOR WATER DRAIN N10 AND DRAW-OFF SUMP REFER TO DWG. NO. 1251-100-116-02-XX-D01-014.
11. FOR BOTTOM DRAW-OFF SUMP N12 NOZZLE & SAMPLE NOZZLE REFEE TO DWG. NO. 1251-100-116-02-XX-D01-016
12. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA. 5.7.4.3 IN API 650.

2

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	3	ASTM A537 CL. 2	PL. O.D. 1137 x I.D. 915 x 24
2	-	3	ASTM A537 CL. 2	PL. O.D 1137 x 30.1
3	-	3	ASTM A537 CL. 2	PL. 2780 x 278 x 30.1
4	3	-	CNAF	GASKET O.D 1051 x I.D. 915 x 3
5	126	-	ASTM A193 GR. B7	HEX BOLT M20 , L=100
6	252	-	ASTM A194 2H	HEX NUT M20
7	-	6	ASTM A36	ROD BAR Ø16 , LENGTH 332
8	-	3	ASTM A537 CL. 2	REINF. PLATE : 1850 x 42.3 x 1975 (SHAPED)
9	-	6	ASTM A283 GR. C	PL. 65 x 50 x 10
10	-	3	CARBON STEEL	EYE BOLT M24
11	3	-	ASTM A193 GR. B7	HEX BOLT M18 - UNC 2A, L70
12	3	-	ASTM A194 2H	HEX NUT M18 - UNC 2B
13	-	3	ASTM A283 GR. C	PL. 400 x 212 x 10
14	-	3	ASTM A106 GR. B	PIPE 2.5" x SCH160 x 420
15	-	3	A36	ROD BAR Ø50, LENGTH 1585
16	6	-	ASTM A194 2H	HEX NUT M24 - UNC 2B
17	-	3	BRASS	SUPPORT RING O.D. 85 x I.D. 52 x10
18	-	3	ASTM A106 GR. B	PIPE BODY : 4"NB SCH XS x 384 LG
19	-	3	ASTM A537 CL. 2	REINF. PLATE : 305 x 42.3 x 353 (SHAPED)
20	-	6	ASTM A105	SO FLANGE : 4"NB 150# RF

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

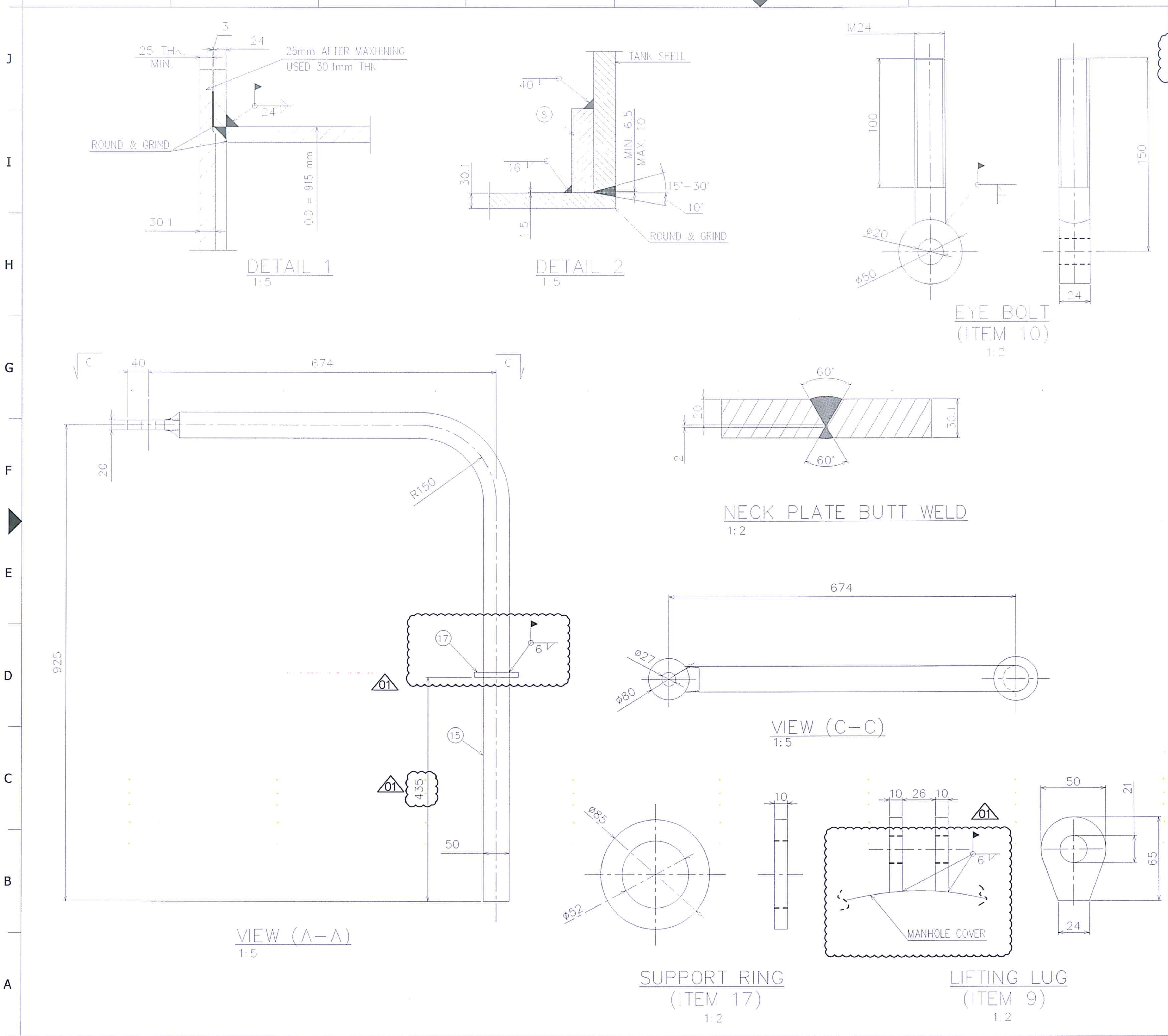
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Shell Fittings

DIMS. IN mm	DRAWING NO.: 1251-100-116-02-XX-D01-019	SHEET No. 1 OF 1	REVISION 2
FORMAT: A2			



GENERAL NOTES

1. FOR LOCATION OF SHELL MANHOLES SEE SHELL ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002
2. FOR BILL OF MATERIAL REFER TO SHELL FITTING DRAWING NO. 1251-100-116-02-XX-D01-019.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

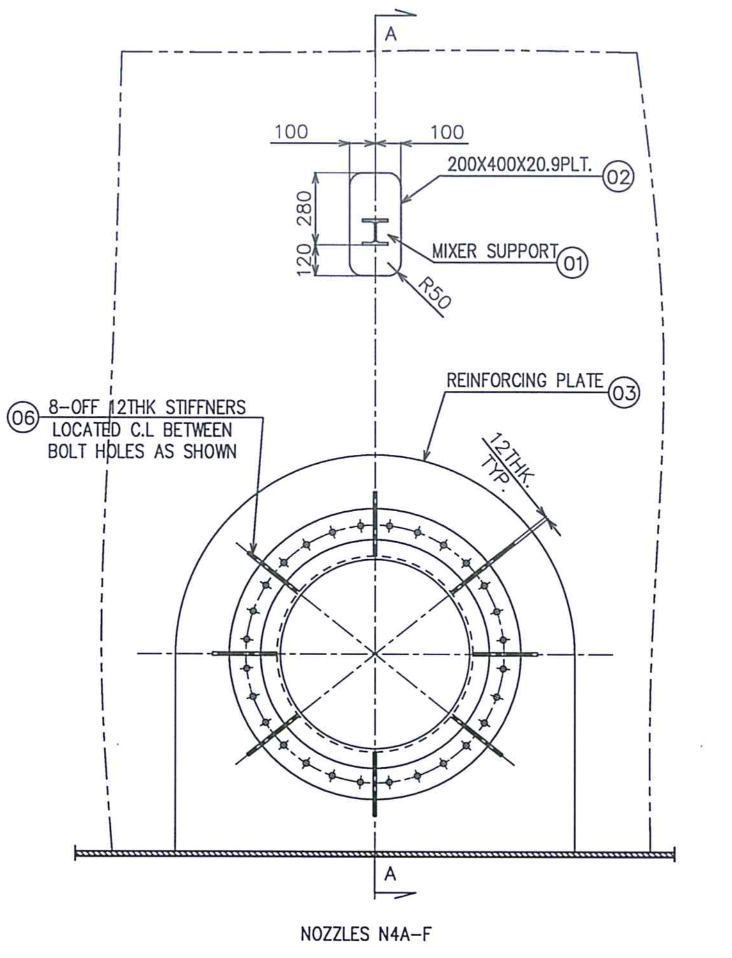
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

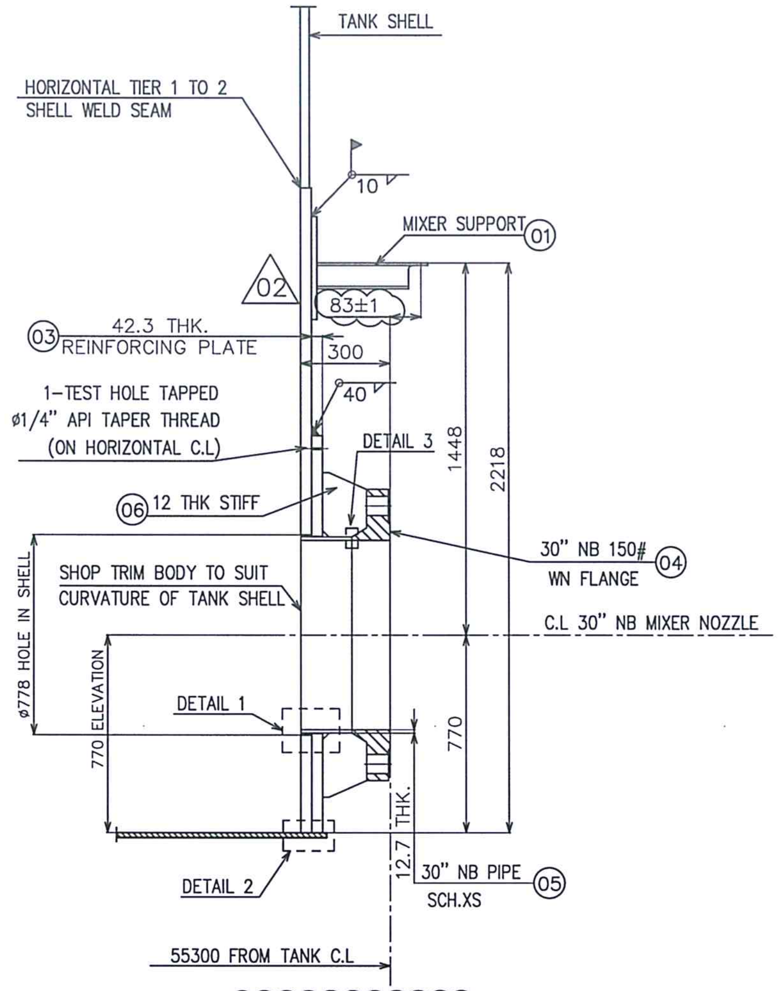
Details of Shell Manhole (M2AC) Davit Arm

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-020	1 OF 1	01



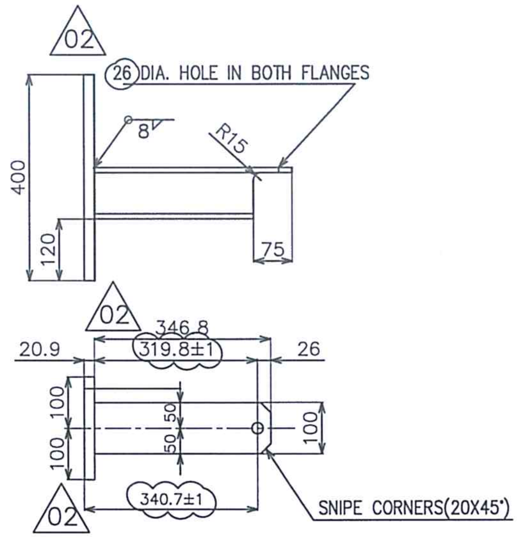
DETAILS OF 30'' NB MIXER NOZZLE 6-OFF REQUIRED REF. (N4 A-F)

1:20



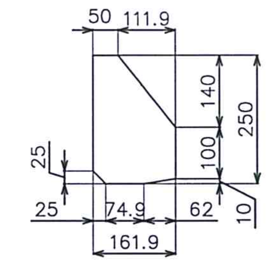
02 SECTION (A-A)

1:20



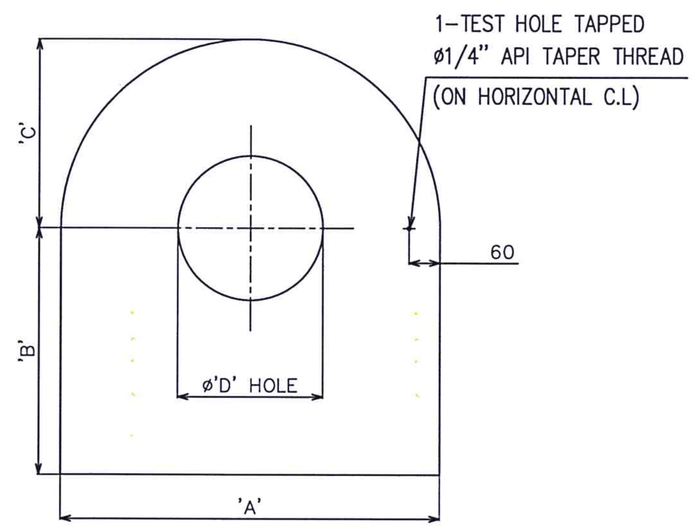
DETAIL OF MIXER SUPPORT

1:10



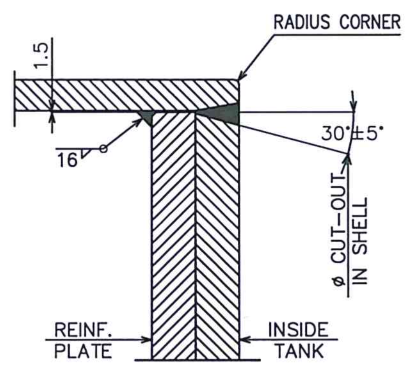
ITEM (6)

1:10



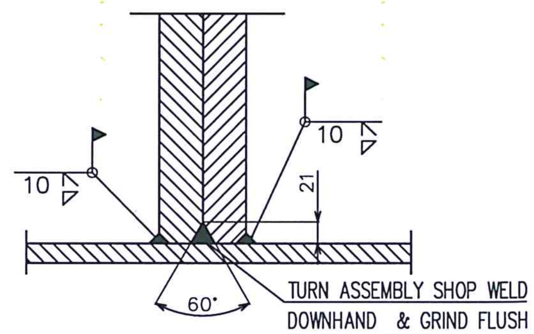
ITEM NO.	NO. OFF	DIM. 'A'	DIM. 'B'	DIM. 'C'	DIM. 'D'
3	6	1550	770	775	765

DETAIL OF REINFORCING PLATES



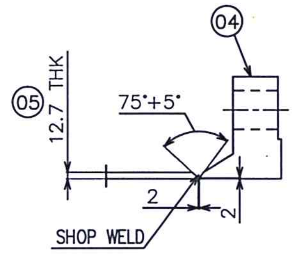
DETAIL 1

1:5



DETAIL 2

1:5



WELD DETAIL 3

1:10

GENERAL NOTES

1. DAVIT BRACKET AND LUGS TO BE SHOP WELDED TO MANHOLE BODY & STRESS RELIEVED.
2. ALL ELEVATIONS ARE FROM TOP SIDE OF THE BOTTOM PLATES.
3. ALL PROJECTIONS ARE MEASURED ON NOZZLE CENTERLINES.
4. ALL FITTING TO BE SHOP WELDED TO SHELL FITTING PLATES & STRESS RELIEVED EXCEPT 2" SAMPLE CONNECTION NOZZLE REF. 'N8'.
5. 30" NB FLANGES TO BE ASME B16.47 SERIES 'A'. FACING FINISH OF FLANGES & FLANGED COMPONENTS SHALL BE 125-250 (AARH).
6. FLANGE BOLT HOLES TO STRADDLE VERTICAL CENTERLINE.
7. THE COMPLETED ASSEMBLY SHALL BE POST WELD HEAT TREATED IN ACCORDANCE WITH API-650.
8. FOR DETAILS OF SHELL FITTINGS REFER TO DWG. NO. 1251-100-116-02-XX-D01-019.
9. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA. 5.7.4.3 IN API 650.
10. FOR SURFACE PREPARATION REFER TO GA NO. 01251-100-116-02-XX-B01-001.

PART LIST (FOR 1-OFF TANK)

1	-	6	DIN 17100 ST.44	HEB 100 x 347 LG.
2	-	6	ASTM A537 CL. 1	END PLATE 200 x 400 x 20.9
3	-	6	ASTM A537 CL. 2	REINF. PLATE : 1545 x 42.3 x 1550 (SHAPED)
4	-	6	ASTM A105	WN FLANGE : 30"NB 150# RF (SCH XS BORE)
5	-	6	ASTM A106 GR. B	PIPE BODY : 30"NB SCH XS x 163 LG
6	-	48	ASTM A537 CL. 1	STIFFBERS : 162 x 12 x 250 (SHAPED)

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	30/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO-A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

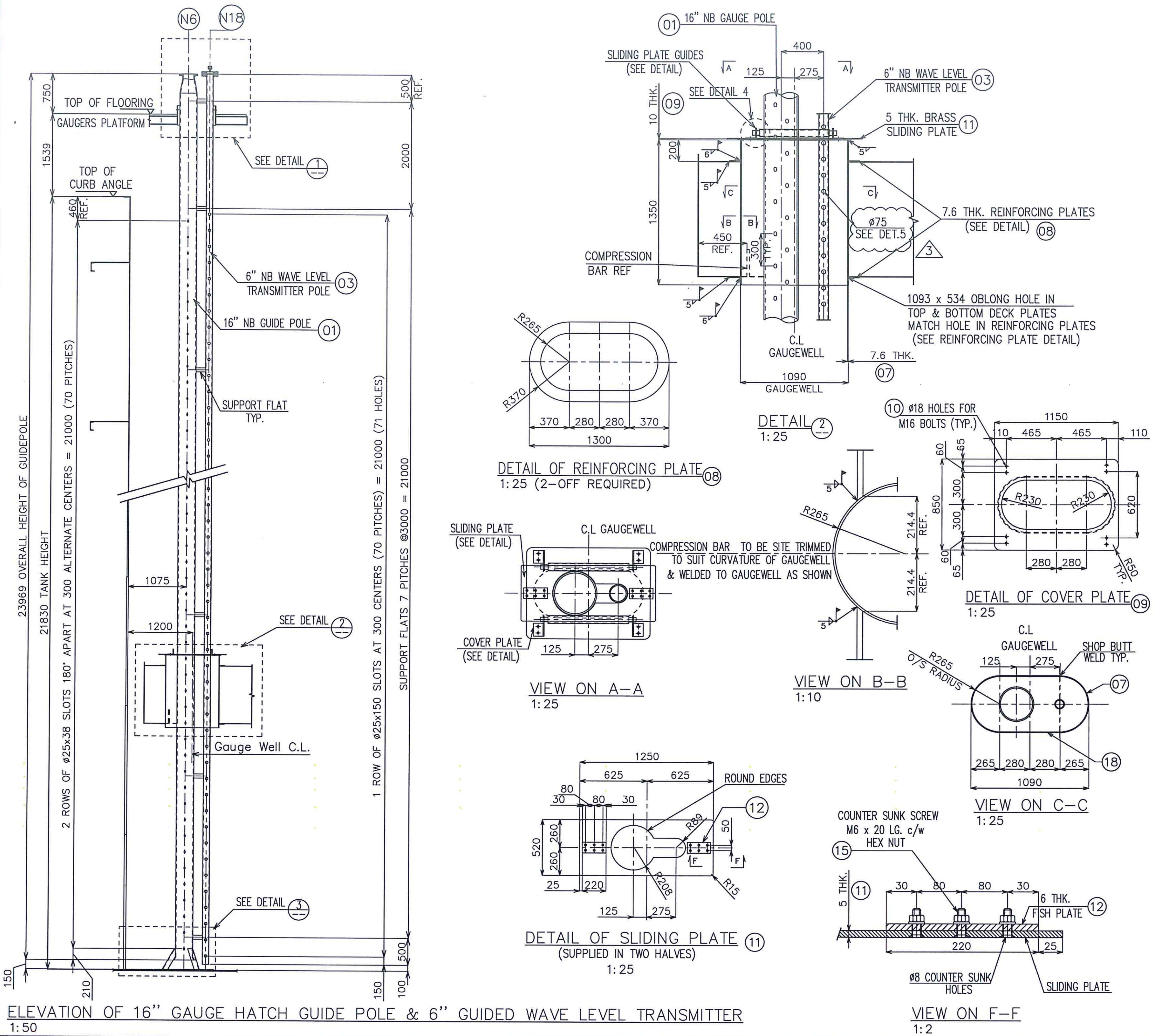
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Mixer Support Details

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-021	SHEET No. 1 OF 1	REVISION 02



GENERAL NOTES

1. GUIDE POLE TO BE ERECTED TO WITHIN 15mm OF PLUMBED VERTICAL.
2. INSIDE BORE OF GUIDE POLE & LEVEL TRANSMITTER POLE MUST BE FREE OF ALL BURRS, PROJECTIONS & WELD SPATTER WITH PARTICULAR ATTENTION BEING PAID TO THE INSIDE OF THE ø25 SLOTS.
3. FOR TRUE ORIENTATION OF POLES SEE ROOF ORIENTATION DRAWINGS.
4. ITEMS 01 & 03 TO BE SITE BUTT WELDED AS REQUIRED.
5. SURFACE PREPARATION SHALL COMPLY WITH NOTE 34 IN MECHANICAL DATA SHEET NO. 1251-100-MDS-116-02-01.

PART LIST (FOR 1-OFF TANK)

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	1	ASTM A106 GR. B	PIPE : 16'' NB SCH XS x 23443 LG. (SEE NOTE 4)
2	-	1	ASTM A105	SO FLANGE : 8'' NB 150# RF
3	-	1	ASTM A106 GR. B	PIPE : 6'' NB SCH XS x 23994 LG. (SEE NOTE 4)
4	-	1	ASTM A105	SO FLANGE : 6'' NB 300# RF
5	9	-	ASTM A36	SUPPORT FLAT : 75 x 7.6 FB x 208
6	1	-	ASTM A283 GR. C	PAD : 1100 SQ. x 10 THK c/w 50 RAD CORNERS
7	-	2	ASTM A283 GR. C	BODY PLATE : 833 x 7.6 x 1350 LG. (ROLLED TO 265 O/RAD)
8	2	-	ASTM A283 GR. C	REINF.PLATES : 7.6 THK (AS DETAILED)
9	-	1	ASTM A283 GR. C	COVER PLATE : 750 x 10 x 1150 (SHAPED)
10	8	-	ASTM A307 GR. B SPUN GALVANISED	BOLTS : M16 x 40 LONG c/w 1-NUT
11	2	-	BRASS	SLIDING PLATE : 570 x 5 x 1250 (SHAPED) (SUPPLIED IN 2 HALVES - SEE DRAWING)
12	2	-	BRASS	FISH PLATE : 100 x 5 x 220
13	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
14	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
15	12	-	BRASS	COUNTERSUNK SCREW : M6 x 20 LONG c/w 1- NUT
16	1	-	ASTM A283 GR. C	CONE : 10 THK. (SEE DETAIL)
17	-	1	ASTM A234 WPB	CONCENTRIC REDUCER : 16'' x 8'' NB SCH XS BW
18	-	2	ASTM A283 GR. C	BODY PLATE : 560 x 7.6 x 1350 LG.
19	3	-	ASTM A36	SUPPORT : 100 x 100 x 10 RSA x 635 LG.
20	4	-	BRASS	BUSH : SEE DETAIL
21	-	2	BRASS	TUBE : 60 O/D x 50 I/D x 500 LG.
22	-	2	ASTM A36	ROLLER : Ø50 x 590 LG.

LEGENDS

- LG. – LONG
- C.L. – CENTER LINE
- E.L. – EARTHING LUG
- CP.E.L. – CP EXTERNAL LUG
- THK. – THICKNESS
- S.M. – SETTLEMENT MARK
- O.D. – OUTER DIAMETER
- R. – RADIUS
- T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
- T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
- C.J.P. – COMPLETE JOINT PENETRATION
- A.N.J. – ANNULAR PLATE WELD JOINT
- B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
- B.P.W.J. – BOTTOM PLATE WELD JOINT
- TYP. – TYPICAL
- DET. – DETAIL
- NOS. – NUMBERS
- W.P. – WORKING POINT
- C.O.D. – CLEAN OUT DOOR
- I.D. – INNER DIAMETER
- EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	09/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
2	28/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

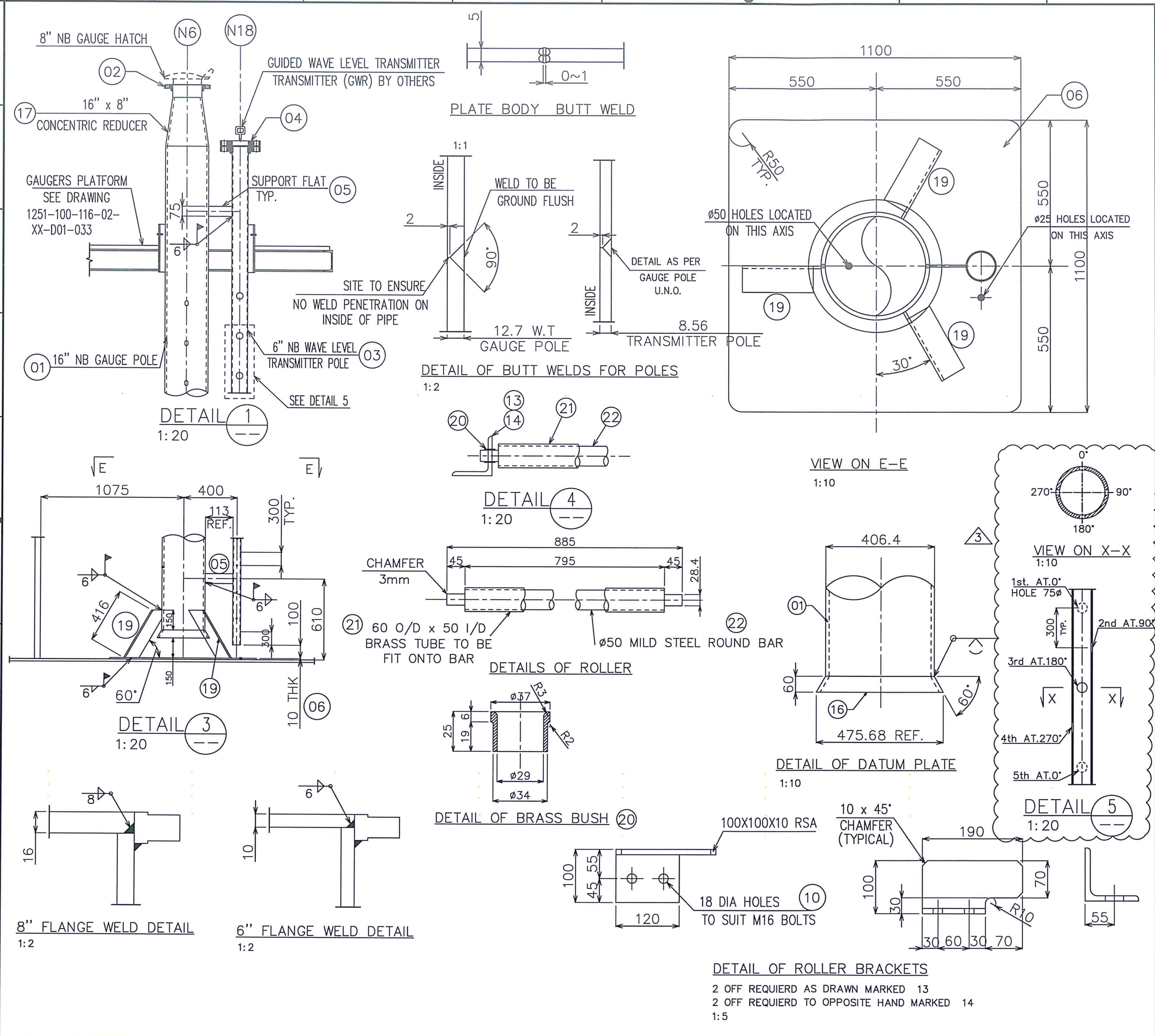
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

DETAILS OF 16" NP GUIDE POLE c/w 8" NP GAUGE HATCH REF. N6 & 6" NP LEVEL TRAN. REF. N18

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-022	SHEET No. 1 OF 2	REVISION 3



LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	09/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
2	28/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

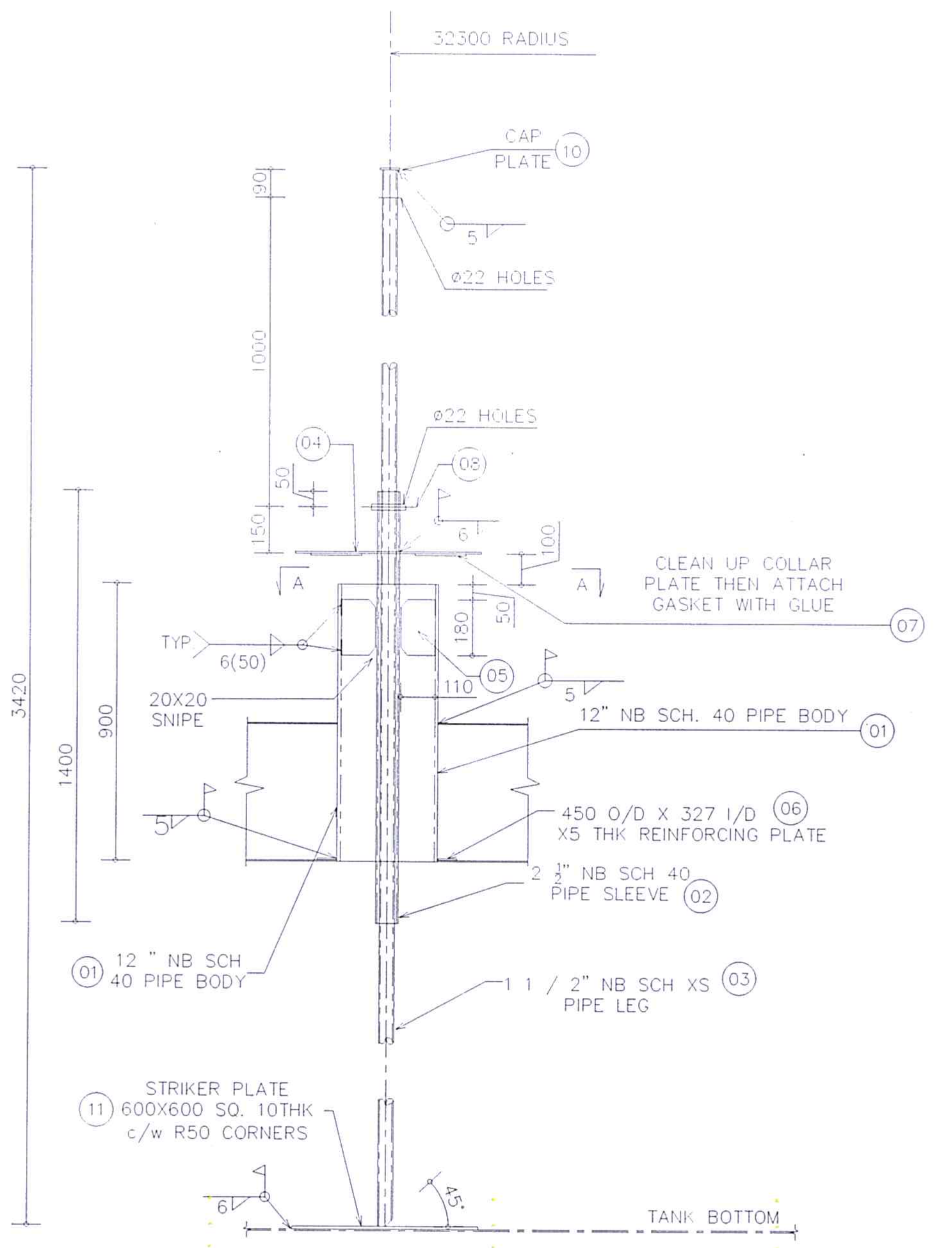
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

DETAILS OF 16" NP GUIDE POLE c/w 8" NP GAUGE HATCH REF. N6 & 6" NP LEVEL TRAN. REF. N18

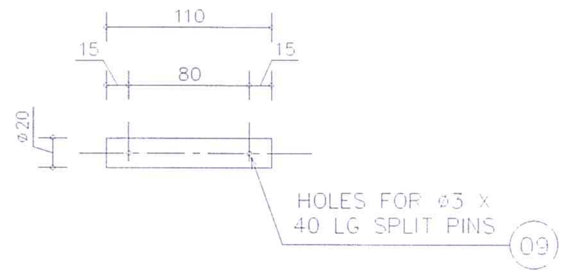
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GENERAL NOTES

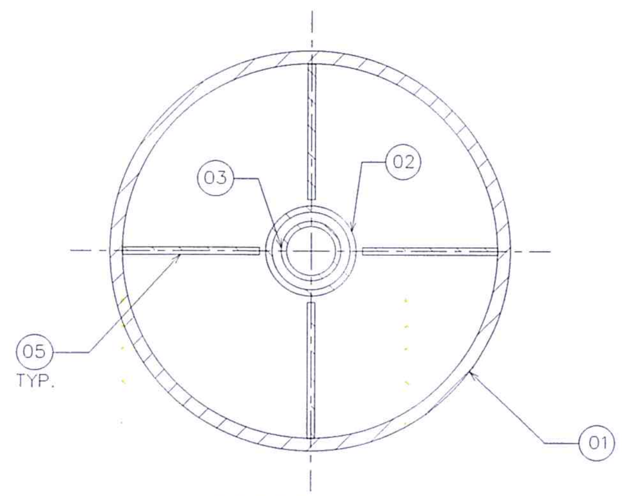
1. FOR LOCATIONS OF ROOF FITTINGS SEE ORIENTATION DRAWINGS NO. 1251-100-116-02-XX-B01-003.
2. DESIGN CODE - API 650 12TH EDITION ADDENDUM 3
3. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001



DETAIL OF 12" NB AUTOMATIC BLEEDER VENT SHOWING VALVE OPEN WITH ROOF IN LOW POSITION
8-OFF REQUIRED MARKED "N2A" - "N2H"



DETAIL OF PIN (08)



SECTION A-A

PARTS LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	.	8	ASTM A106 GR B	BODY : 12" NB SCH 40 X 900 LG
02	.	8	ASTM A106 GR B	SLEEVE : 2 1 / 2" NB SCH 40 X 1400 LG
03	.	8	ASTM A106 GR B	LEG : 1 1 / 2" NB XS x 3420 LG
04	.	8	ASTM A283 GR C	COLLAR : 405 O.D x 76 I.D x 6THK
05	.	32	ASTM A283 GR C	GUIDE PLATE : 110 x 6 x 180 (SHAPED)
06	8	.	ASTM A283 GR C	REINF PLATE : 450 O.D x 327 I.D x 5 THK
07	.	8	CORPRENE	GASKET : 350 O.D x 165 I.D x 6 THK
08	.	8	ASTM A283 GR C	PIN : 20 DIA x 110 LG
09	.	16	STAINLESS STEEL	SPLIT PIN : 3 DIA x 40 LG
10	.	8	ASTM A283 GR C	CAP PLATE : 65 DIA x 6 THK
11	8	.	ASTM A283 GR C	STRIKER PLATE : 600 SQ x 7.6 THK c/w R50 CORNERS

29-OFF TANKS REQUIRED

LEGENDS

LG. - LONG
C.L. - CENTER LINE
E.L. - EARTHING LUG
CP.E.L. - CP EXTERNAL LUG
THK. - THICKNESS
S.M. - SETTLEMENT MARK
O.D. - OUTER DIAMETER
R. - RADIUS
T.O.B.A.P. - TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. - TOP OF BOTTOM SKETCH PLATE
C.J.P. - COMPLETE JOINT PENETRATION
A.N.J. - ANNULAR PLATE WELD JOINT
B.C.D. - ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. - BOTTOM PLATE WELD JOINT
TYP. - TYPICAL
DET. - DETAIL
NOS. - NUMBERS
W.P. - WORKING POINT
C.O.D. - CLEAN OUT DOOR
I.D. - INNER DIAMETER
EL. - ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	22/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	23/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

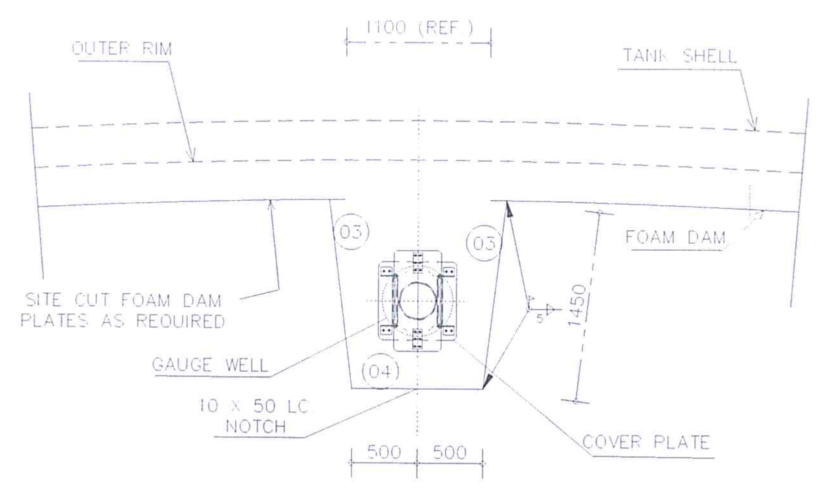
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

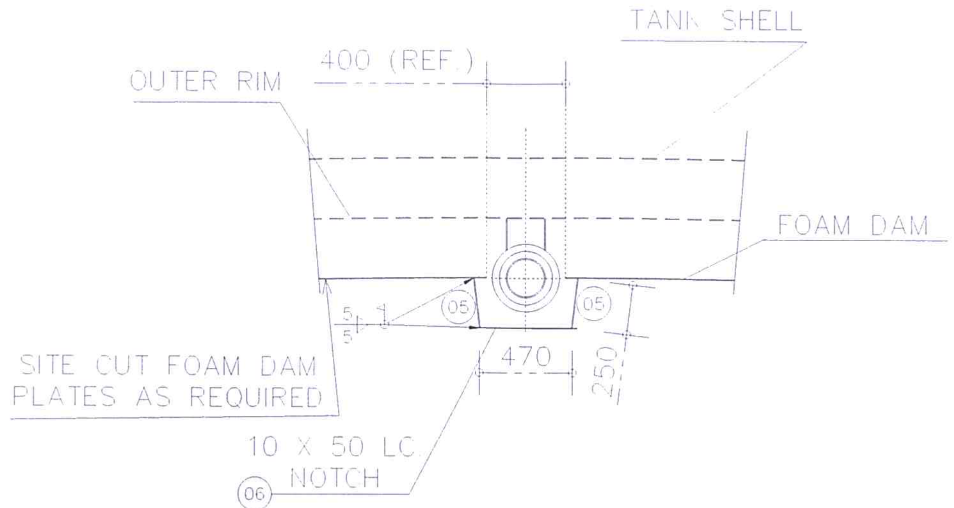
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of 12" NP Automatic Bleeder Vents

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-023 | SHEET No. 1 OF 1 | REVISION 2



DETAIL OF FOAM DAM AT POLES
(TYPICAL 2 ~ PLACES)



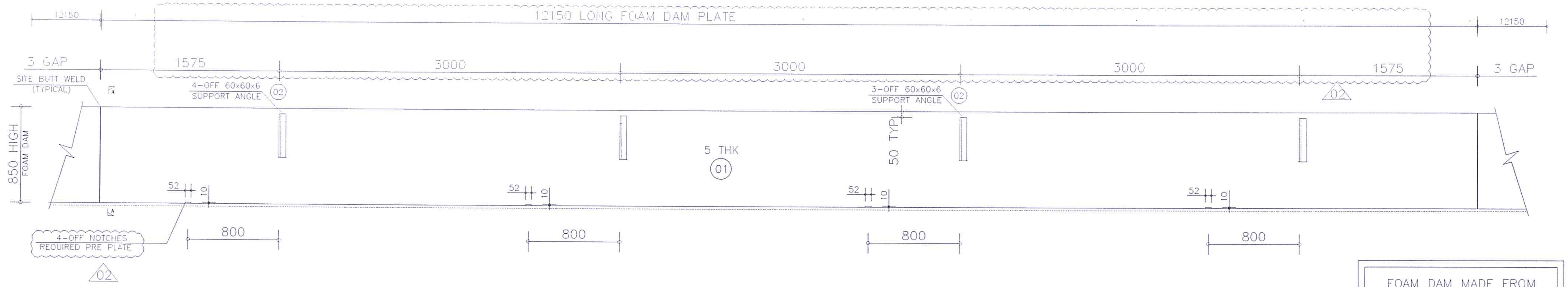
DETAIL OF FOAM DAM AT RIM VENT
(TYPICAL 6 ~ PLACES)

GENERAL NOTES

1. FOR DETAILS OF DOUBLE DECK FLOATING ROOF SEE DRAWING NO 1251-100-116-02-XX-D99-004 & 1251-100-116-02-XX-D99-005
2. FOR DETAILS OF ROOF FITTINGS SEE DRAWING NO. 1251-100-116-02-XX-D99-026 & 1251-100-116-02-XX-D99-027
3. DAM HEIGHT SHALL BE AT LEAST 50 MM HIGHER THAN ANY BURNOUT PANELS IN METAL SECONDARY SEAL AS PER NFPA 11

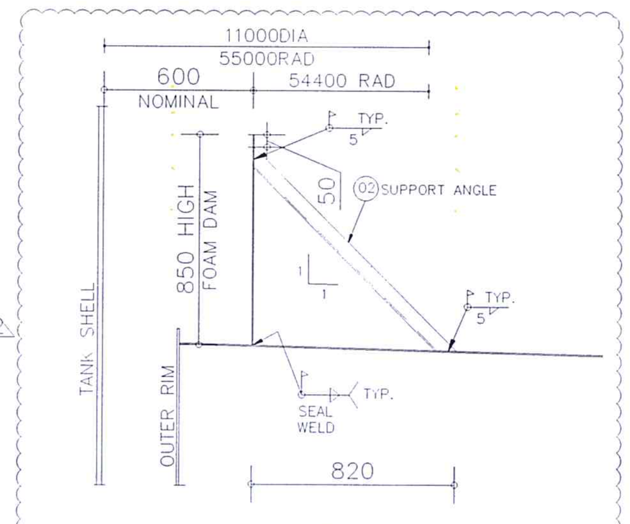
PARTS LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	28	.	ASTM A283 GR C	FOAM DAM : 850 X 5 X 12150
02	112	.	ST. 44	SUPPORT ANGLE : 60X60X6 RSA X1160 LG
03	4	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 1450
04	2	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 1000
05	12	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 250
06	6	.	ASTM A283 GR C	FOAM DAM PLATE : 850 X 6 X 470



FOAM DAM MADE FROM 28-OFF PLATES 850 X 5 X 12150

DETAIL OF FOAM DAM PLATE



SECTION A-A

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	16/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO-A.R.E.

PROJECT: CRUDE OIL TANK FARM

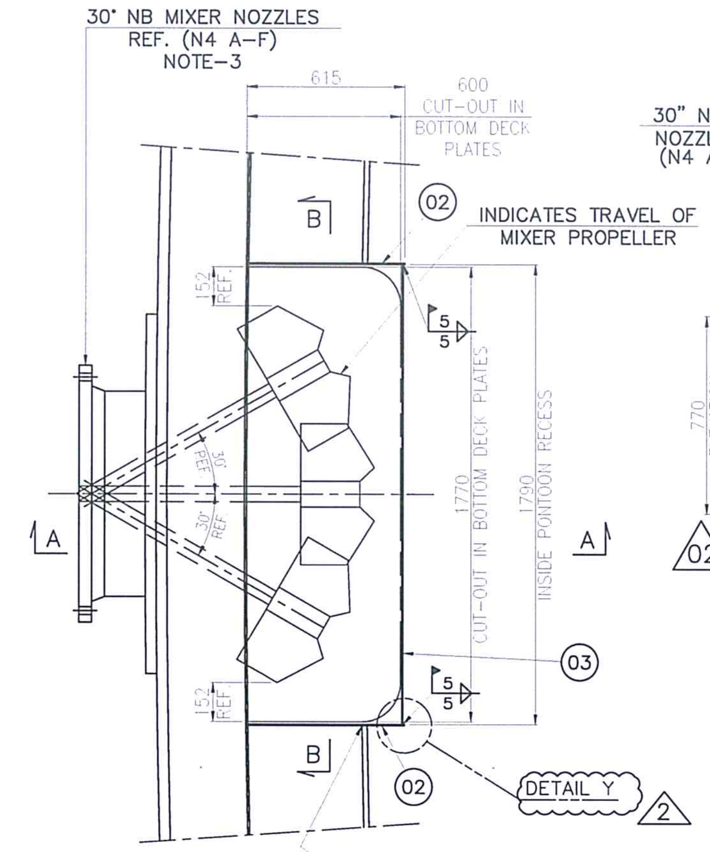
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

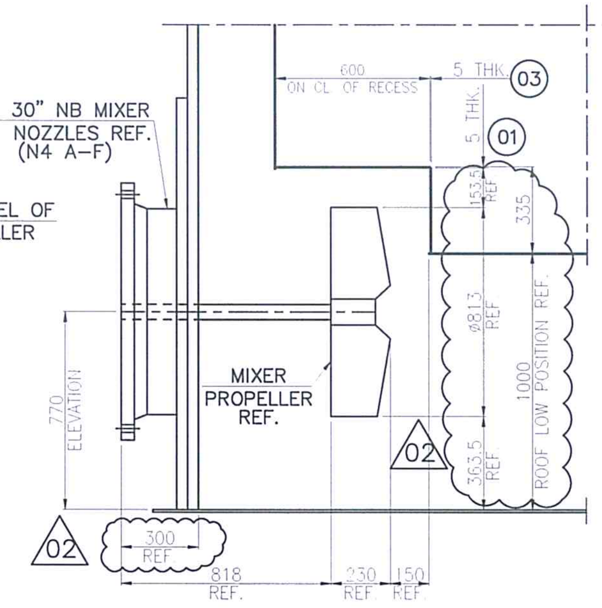
Foam Dam Details

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-024	SHEET No 1 OF 1	REVISION 02



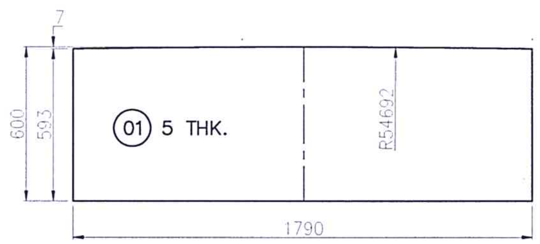
PLAN ON PONTOON RECESS AT 30" NB MIXER NOZZLE TYPICAL – 6 PLACES @ NOZZLES (N4 A–F)

(TOP PLATE OMITTED FOR CLARITY)
1:20



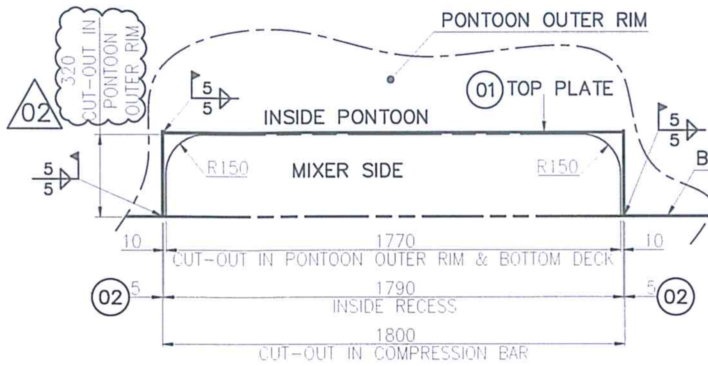
SECTION (A–A)

1:20



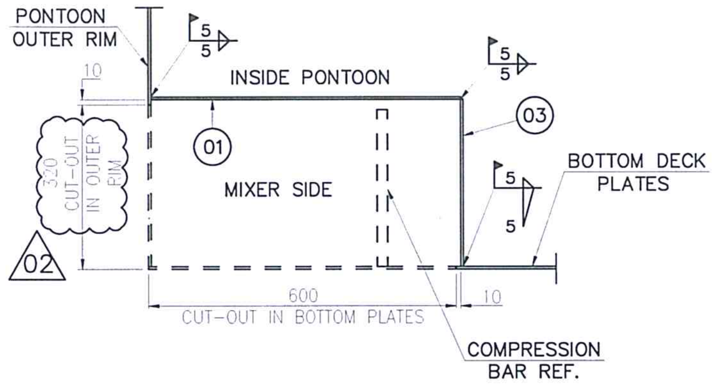
DETAIL OF TOP PLATE

1:20



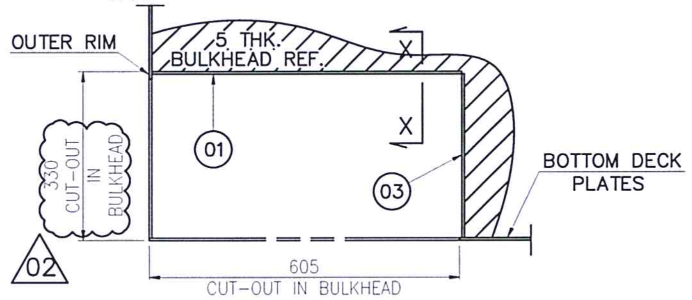
SECTION (B–B)

1:20



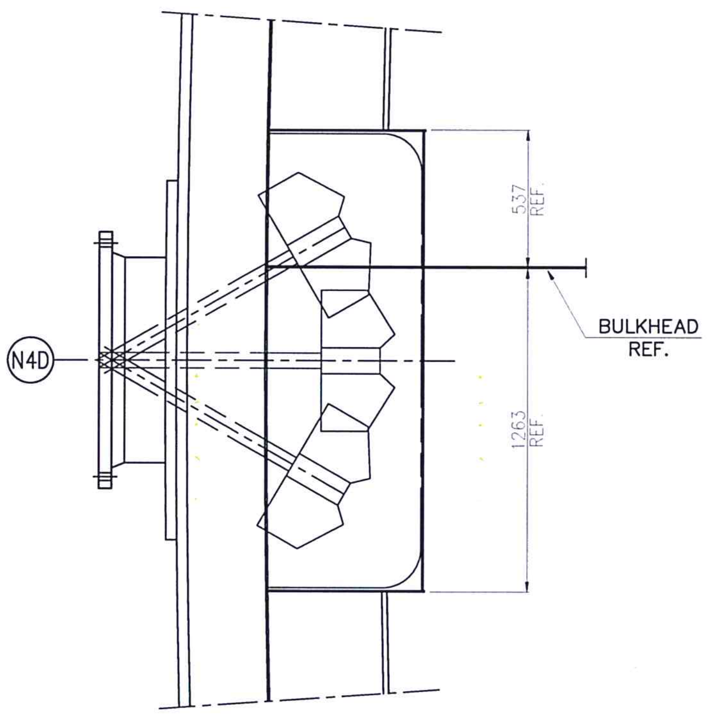
DETAIL OF CUT-OUT IN PONTOON

1:10



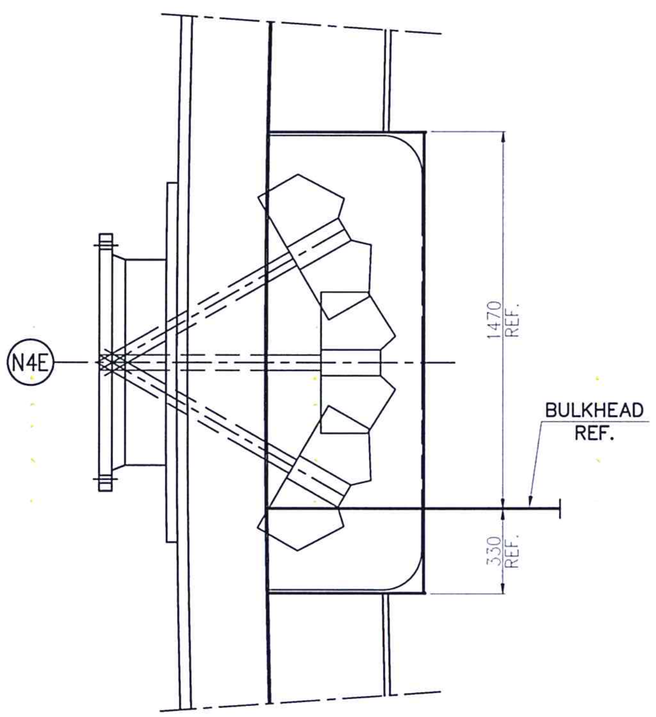
DETAIL OF CUT-OUT IN BULKHEAD TYPICAL – 2 PLACES – NOZZLES (N4D & N4E)

1:10



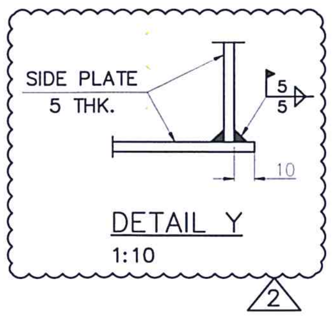
KEY PLAN SHOWING BULKHEAD LOCAL TO MIXER NOZZLE (N4D)

1:50



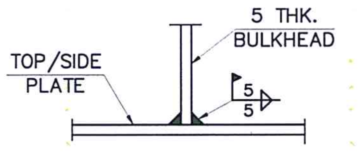
KEY PLAN SHOWING BULKHEAD LOCAL TO MIXER NOZZLE (N4E)

1:50



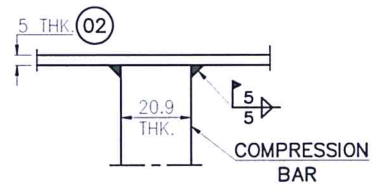
DETAIL Y

1:10



SECTION (X–X)

1:10



DETAIL 1

1:10

PARTS LIST (FOR 1-OFF TANK)

ITEM	DESCRIPTION	SIZE (mm)			QTY.	MATERIAL	WT.(Kg)
1	TOP PLATE	1790	600	5	6	A283 Gr. C	252.93
2	SIDE PLATE	615	345	5	12	A283 Gr. C	99.93
3	SIDE PLATE	1790	325	5	6	A283 Gr. C	137.00
						TOTAL WEIGHT IN K.G. =	489.86

NOTES:–

1. FOR LOCATIONS OF MIXER NOZZLES SEE BOTTOM & SHELL ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002.
2. FOR DETAILS OF SHELL FITTINGS REFER TO DWG. NO. 1251-100-116-02-XX-D01-019.
3. FOR SURFACE PREPARATION REFER TO GA NO. 01251-100-116-02-XX-B01-001.

SITE TO MAKE CUT-OUT IN COMPRESSION BAR PRIOR TO INSTALLING PONTOON RECESS.
SITE TO WELD RECESS PLATE ITEMS 01, 02 & 03 ON INSIDE OF PONTOON THEN MAKE CUT-OUT IN PONTOON BOTTOM DECK & OUTER RIM.
SITE THEN COMPLETE WELD ON MIXER SIDE OF RECESS.

SITE TO ENSURE PONTOON COMPARTMENTS ARE COMPLETELY SEAL WELDED.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	M.D.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

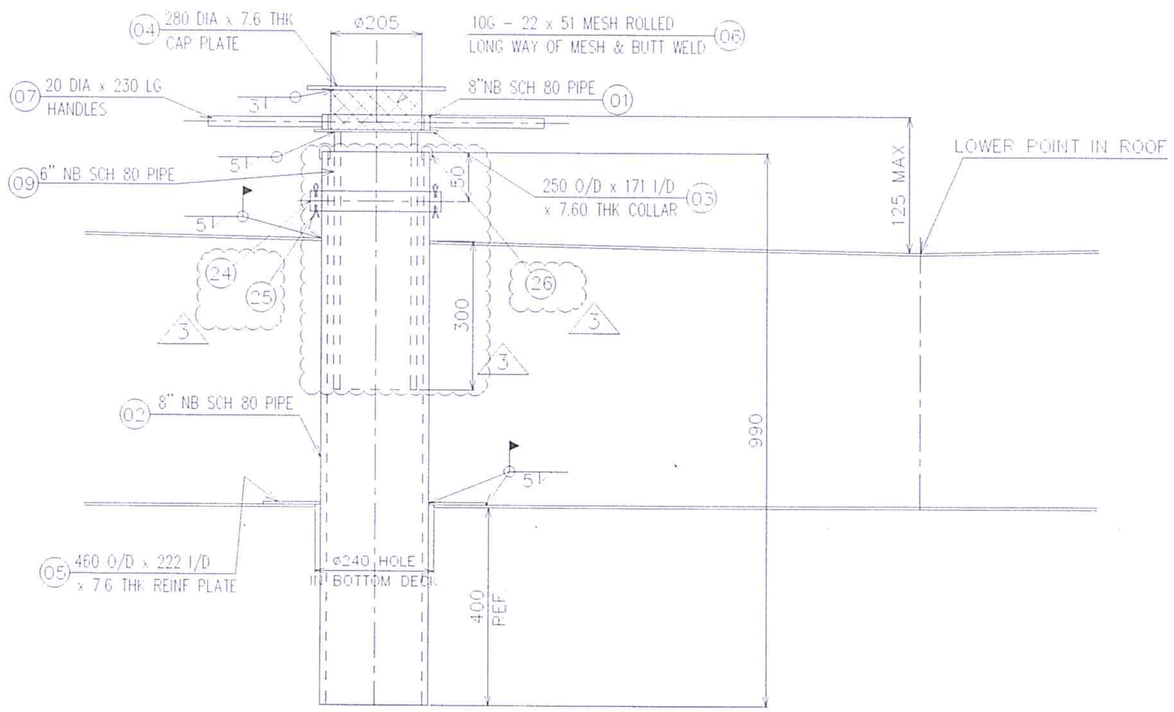
CLIENT: EGPC

CRUDE OIL STORAGE TANK

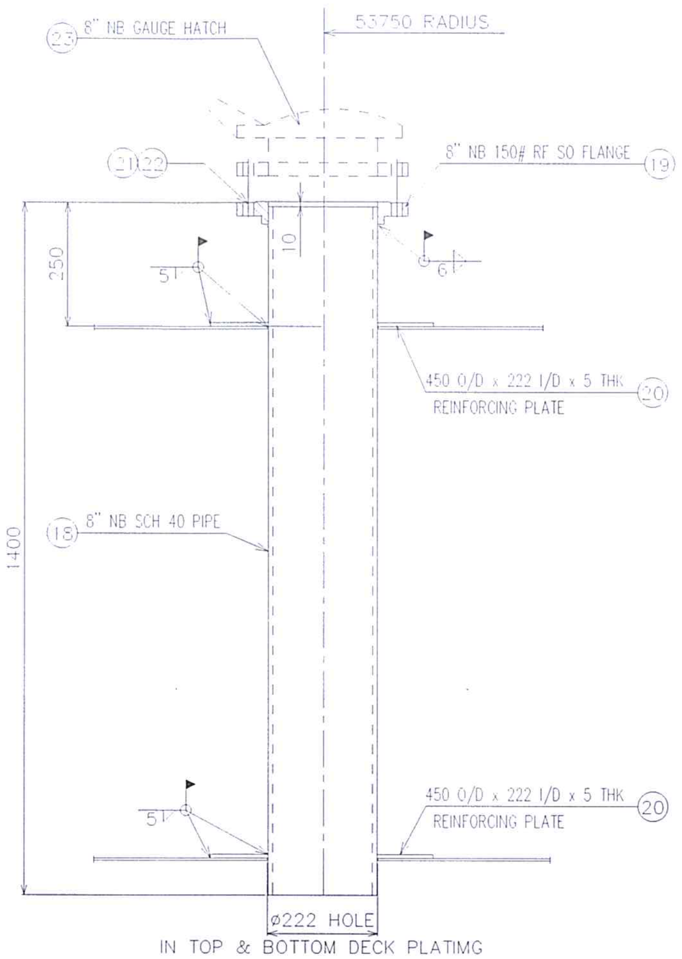
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Pontoon Recess at Mixer Nozzle

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-025	SHEET No. 1 OF 1	REVISION 02



DETAIL OF 6" NB EMERGENCY ROOF DRAIN
10-OFF REQUIRED MARKED 'N5'
1:10



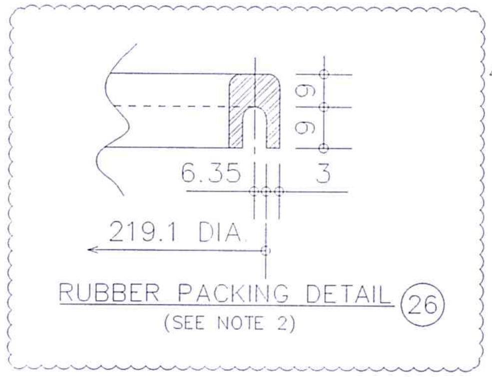
DETAIL OF 8" NB GAUGE HATCH
1-OFF REQUIRED MARKED 'N11'
1:10

GENERAL NOTES

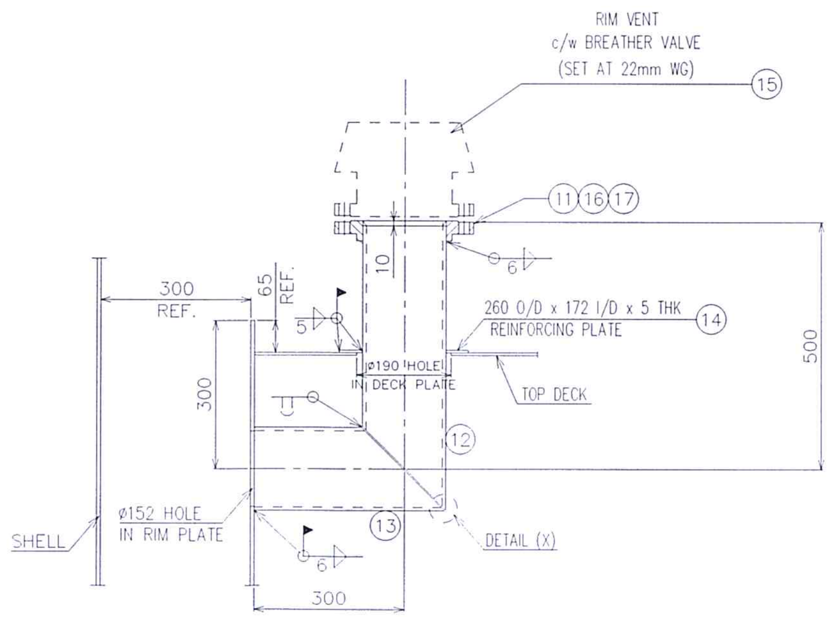
1. FOR LOCATION OF ROOF FITTINGS SEE ROOF ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-003
2. ELEVATIONS OF THE EMERGENCY ROOF DRAINS SHALL BE SUCH THAT THE OUTER RIM CANNOT BE COMPLETELY SUBMERGED
3. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 01251-100-116-02-XX-B01-001

PART LIST (FOR 1-OFF TANK)

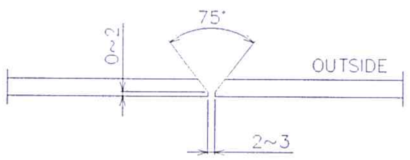
ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	10	ASTM A106 GR. B	COLLAR : 8" NB SCH 80 x 30LG
2	-	10	ASTM A106 GR. B	DRAIN : 8" NB SCH 80 x 990 LG
3	-	10	ASTM A283 GR. C	COLLAR : 250 O/D x 171 I/D x 7.6 THK
4	-	10	ASTM A283 GR. C	CAP PLATE : 280 DIA x 5 THK
5	10	-	ASTM A283 GR. C	REINF. PLATE : 460 O/D x 222 I/D x 7.6 THK
6	-	10	CARON STEEL GALVANISED	MESH : 80 x 650 LG x 10G - 22 x 51 (ROLLED)
7	-	20	ASTM A36	HANDLES : 20DIA x 230 LG
8	DELETED			
9	-	10	ASTM A106 GR. B	DRAIN : 6" NB SCH 80 x 400 LG
10	DELETED			
11	-	6	ASTM A105	S.O. FLANGE : 6" NB 150# RF
12	-	6	ASTM A106 GR. B	PIPE : 6" NB SCH 40 x 573 LG
13	-	6	ASTM A106 GR. B	PIPE : 6" NB SCH 40 x 382 LG
14	6	-	ASTM A283 GR. C	REINF. PLATE : 260 O/D x 172 I/D x 5 THK
15	6	-	SUPPLIERS STANDARD	RIM VENT : 6" NB 150# RF
16	6	-	CNAF	GASKET : TO SUIT 6" NB 150# RF
17	48	-	ASTM A193 B7/A194 2H	STUD BOLTS : Ø3/4" UNC x 3 3/4" LG c/w 2 HEX NUTS
18	-	1	ASTM A106 GR. B	PIPE : 8" NB SCH 40 x 1390 LG
19	-	1	ASTM A105	S.O. FLANGE : 8" NB 150# RF
20	2	-	ASTM A283 GR. C	REINF. PLATE : 450 O/D x 222 I/D x 5 THK
21	1	-	CNAF	GASKET : TO SUIT 8" NB 150# RF
22	8	-	ASTM A193 B7/A194 2H	STUD BOLTS : Ø3/4" UNC x 3 3/4" LG c/w 2 HEX NUTS
23	1	-	SUPPLIERS STANDARD	GAUGE HATCH : 8" NB
24	10	-	ST. 44	PINS 1" DIA. X 250 LG
25	20	-	STAINLESS STEEL	SPLIT PINS 1/2" DIA. X 65 LG
26	10	-	NEOPRENE	U SHAPE RUBBER PACKING c/w ADHESIVE (SEE DETAIL)



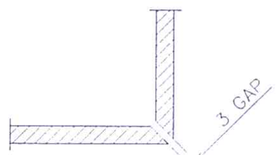
RUBBER PACKING DETAIL (26)
(SEE NOTE 2)



DETAIL OF 6" NB RIM VENT
6-OFF REQUIRED MARKED 'N3A' - 'N3F'
1:10



TYPICAL PIPE BUTT
1:2



DETAIL (X)
1:2

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	15/10/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

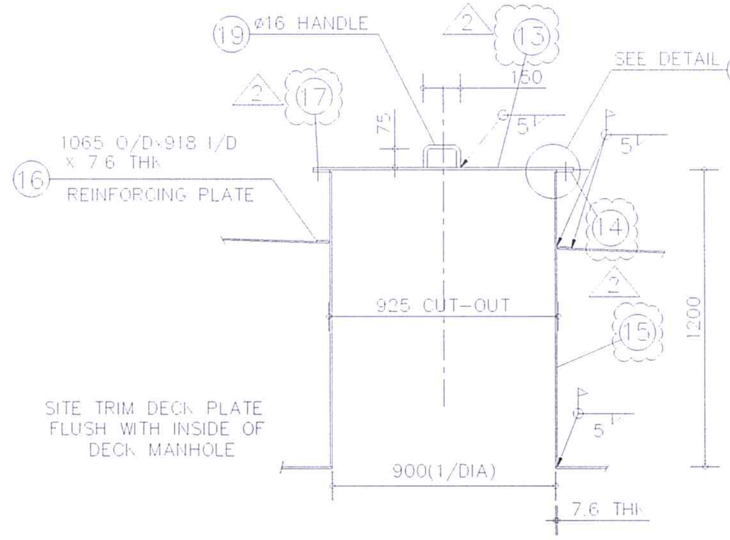
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

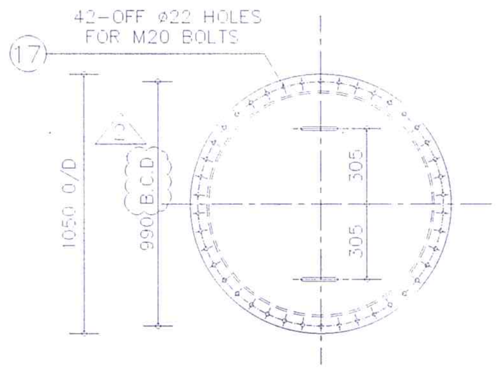
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO - A.R.E.

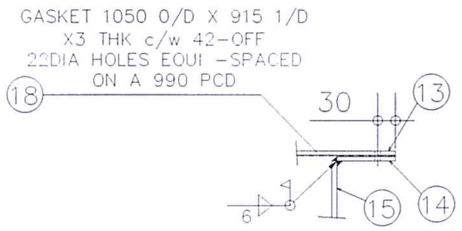
PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06
Details of Roof Fittings

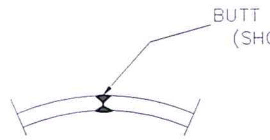
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-026	1 OF 1	3





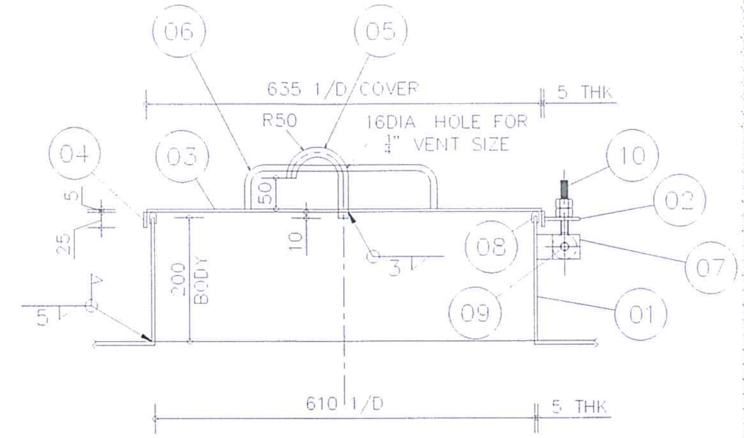


DETAIL 1



JOINT IN BODY PLATE

DETAIL OF 36" NB THROUGH DECK MANHOLE
4-OFF REQUIRED MARKED "M1A","M1B","M1D"



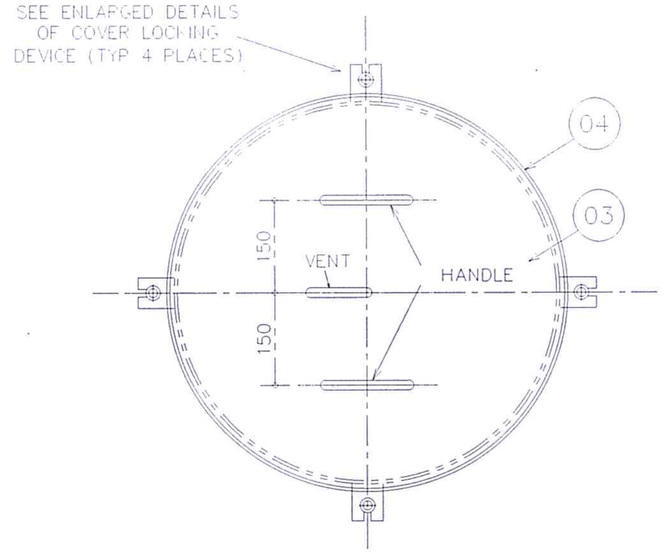
SECTION THROUGH PONTOON MANHOLE

GENERAL NOTES

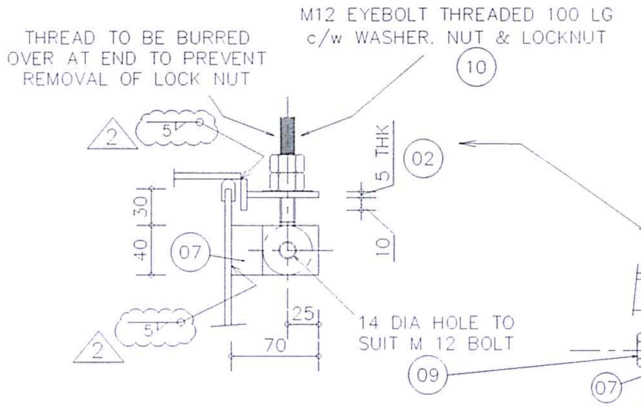
1. FOR ORIENTATIONS OF ROOF MANHOLES SEE TANK ROOF ORIENTATION DRAWINGS NO. 1251-100-116-02-XX-B01-003
2. RUBBER GASKET ITEM 08 SUPPLIED IN STRAIGHT LENGTHS. SITE TO FIT GASKET TO BODY OF MANHOLE & TRIM AS REQUIRED. ENDS OF FORMED RING BE JOINED WITH SUITABLE ADHESIVE.
3. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 01251-100-116-02-XX-B01-001

PARTS LIST (FOR 1-OFF TANK)

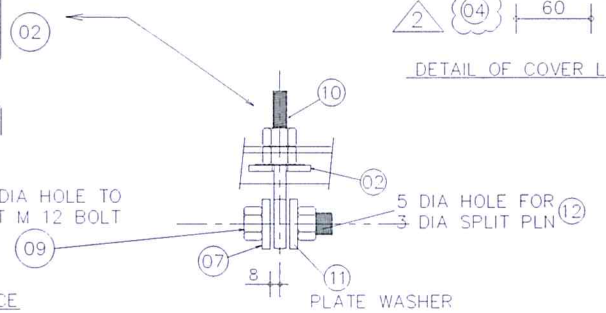
ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	.	105	ASTM A283 GR C	BODY : 200 X 5 X 1932 (ROLLED TO 610 1 / D)
02	.	420	ASTM A283 GR C	LUG : 50 X 5 X 60
03	.	105	ASTM A283 GR C	LID PLATE : 635 DIA X 5 THK
04	.	105	ASTM A283 GR C	RIM PLATE : 25 X 5 X 2011
05	.	105	ASTM A106 GR B	VENT PIPE : m/f 1/4" NB SCH 80 X 215 LG
06	.	210	ASTM A36	HANDLE : m/f 16 DIA X 350 LG
07	.	420	ASTM A283 GR C	LUG : 40 X 5 X 70
08	205 M	.	NEOPRENE	RUBBER PACKING c/w ADHESIVE : SEE DRAWING
09	420	.	ASTM A193 B7/A194 2H	BOLTS : NUTS : M12 X 50 LG c/w 2 HEX NUT
10	420	.	MILD STEEL (GALVANISED)	EYEBOLT : M12 THREADED 100 LG c/w WASHER. NYT & LOCKNUT
11	420	.	ASTM A283 GR C	PLATE WASHER : 40 X 5 X 40
12	420	.	STAINLESS STEEL	SPLIT PIN : 3 DIA X 40LG
13	.	4	ASTM A283 GR C	COVER PLATE : 1050 DIA X 7.6 THK
14	.	4	ASTM A283 GR C	FLANGE : 1050 0/D X 915 1/D X 7.6 THK
15	.	4	ASTM A283 GR C	BODY : 1194 X 7.6 X 2846 (ROLLED TO 900 1 / D)
16	4	.	ASTM A283 GR C	REINF PLATE : 1065 0/D X 918 1/D X 7.6 THK
17	168	.	ASTM A193 B7/A194 2H	BOLTS : NUTS : M20 X 40 LG c/w 1 HEX NUT
18	4	.	CNAF	GASKET : 1050 0/D X 915 1/D X 1.5 THK c/w 42 - OFF 22 DIA HOLES EQUI - SPAGED ON A 990 B.C.D.
19	.	8	ASTM A36	HANDLE : m/f 16 DIA X 350 LG

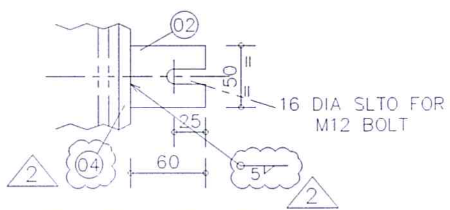


DETAIL OF 24"NB DECK MANHPLE
105-OFF REQUIRED MARKED "N16"

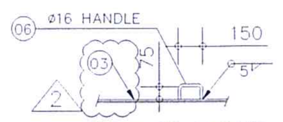


DETAIL OF LOCKING DEVICE

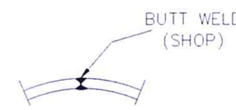




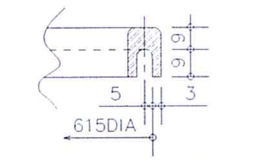
DETAIL OF COVER LUGS



DETAIL OF HANDLES



JOINT IN BODY PLATE & COVER RIM



RUBBER PACKING DETAIL (08)
(SEE NOTE 2)

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

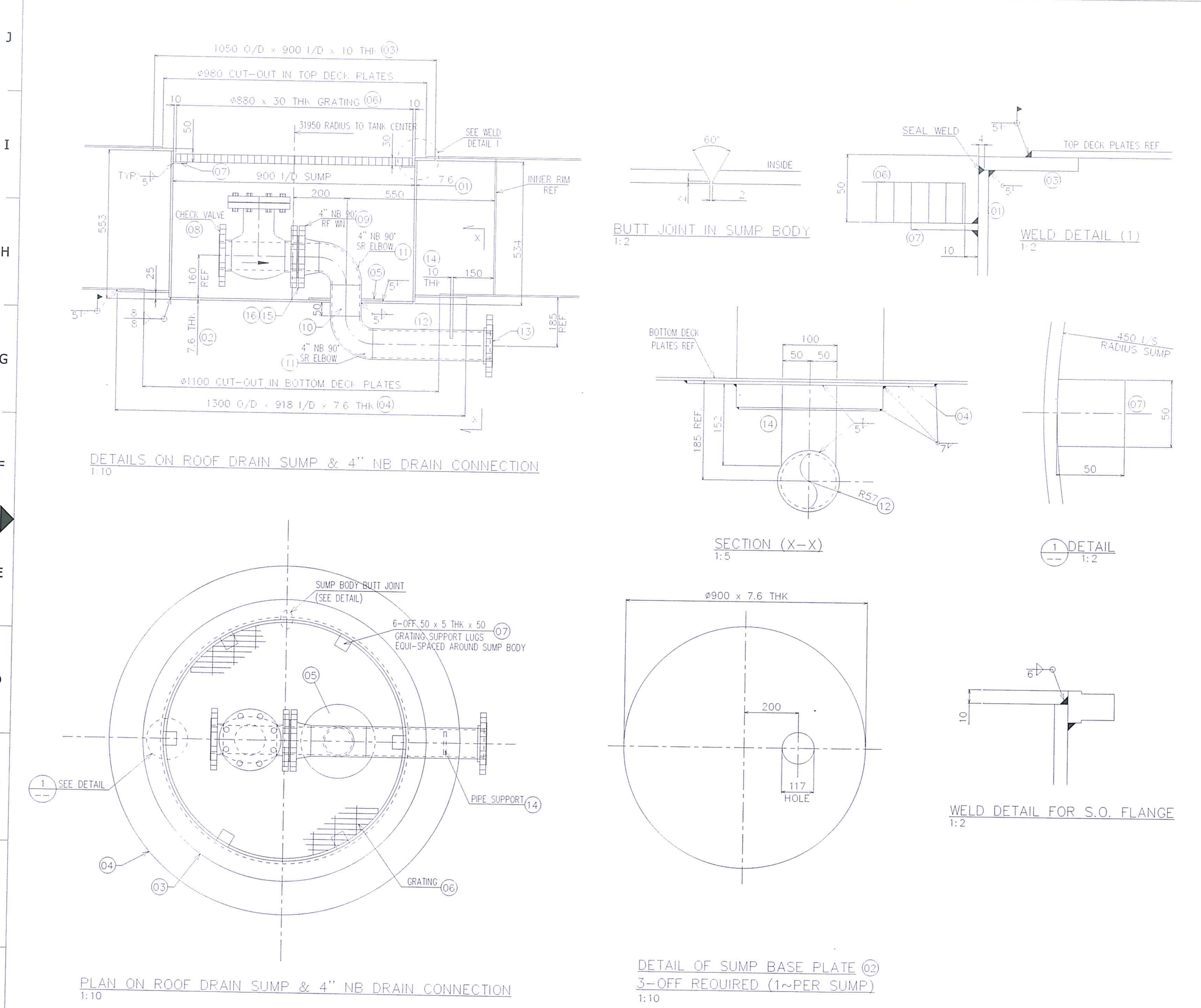
CLIENT: EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Roof and pontoon Manholes

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D01-027 | SHEET No. 1 OF 1 | REVISION 2



GENERAL NOTES

1. FOR LOCATION OF ROOF DRAIN SUMPS SEE ROOF ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-003.
2. FLOORING PANEL TO BE OPEN GRATING USING 30x4 LB BARS AT 50 CENTERS. PANEL TO HAVE 30mm DEEP EDGE BINDING BAR. FINISH-TO BE HOT DIPPED GALVANIZED TO BS 729
3. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 01251-100-116-02-XX-B01-001

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	3	ASTM A283 GR.C	SUMP BODY : 545x7.6x2851 (ROLLED TO 900 I/D)
2	-	3	ASTM A283 GR.C	SUMP BASE : 900 O/D x7.6 THK (SEE DETAIL)
3	-	3	ASTM A283 GR.C	SUMP TOP RING : 1050 O/D x 900 I/D x 10THK
4	-	3	ASTM A283 GR.C	BOTTOM PLATE : 1300 O/D x 918 I/D x 7.6 THK
5	-	3	ASTM A283 GR.C	REINF. PLATE : 275 O/D x 117 I/D x 7.6 THK.
6	3	-	SEE NOTE 2	FLOORING PANEL : Ø880
7	-	18	ASTM A283 GR.C	SUPPORT LUGS : 50 x 5 x 50 (SHAPED)
8	3	-	ASTM A36	SWING CHECK VALVE :4" NB 150 # RF c/w BOLTED COVER
9	-	3	ASTM A105	FLANGE : 4" NB 150 # RF WELD NECK (SCH 40 BORE)
10	-	3	ASTM A106 GR. B	PIPE : 4" NB SCH 40 x 116 LG
11	-	6	ASTM A234 WPB	90° SHORT REDIUS ELBOW : 4" NB SCH 40 BW
12	-	3	ASTM A106 GR. B	PIPE : 4" NB SCH 40 x 438 LG
13	-	3	ASTM A105	FLANGE : 4" NB 150# RF SLIP ON
14	-	3	ASTM A283 GR.C	SUPPORT : 100 x 10 x 152 (SHAPED)
15	3	-	CAF-GRAPHITIED BOTH SIDES (EPCO TYPE G3)	GASKET : TO SUIT 4" NB 150 # RF
16	24	-	ASTM A193 B7/A194 2H	STUD BOLTS : 5/8" x 3-1/2" LG c/w 2 HEX NUTS

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

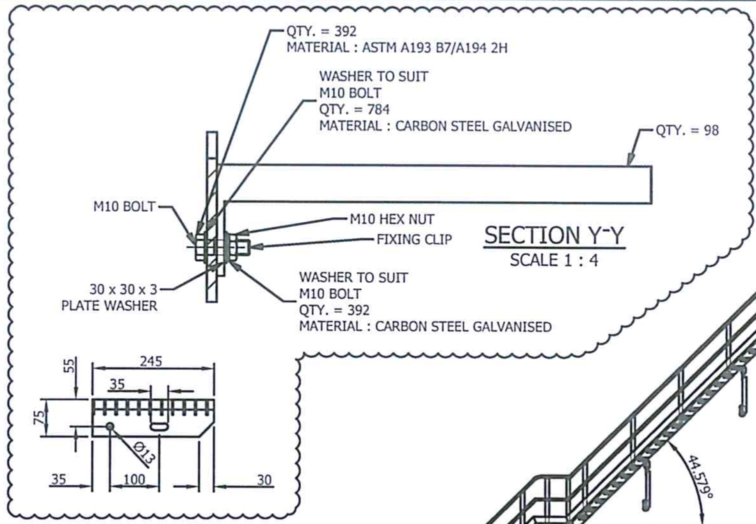
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Roof Drain Sump

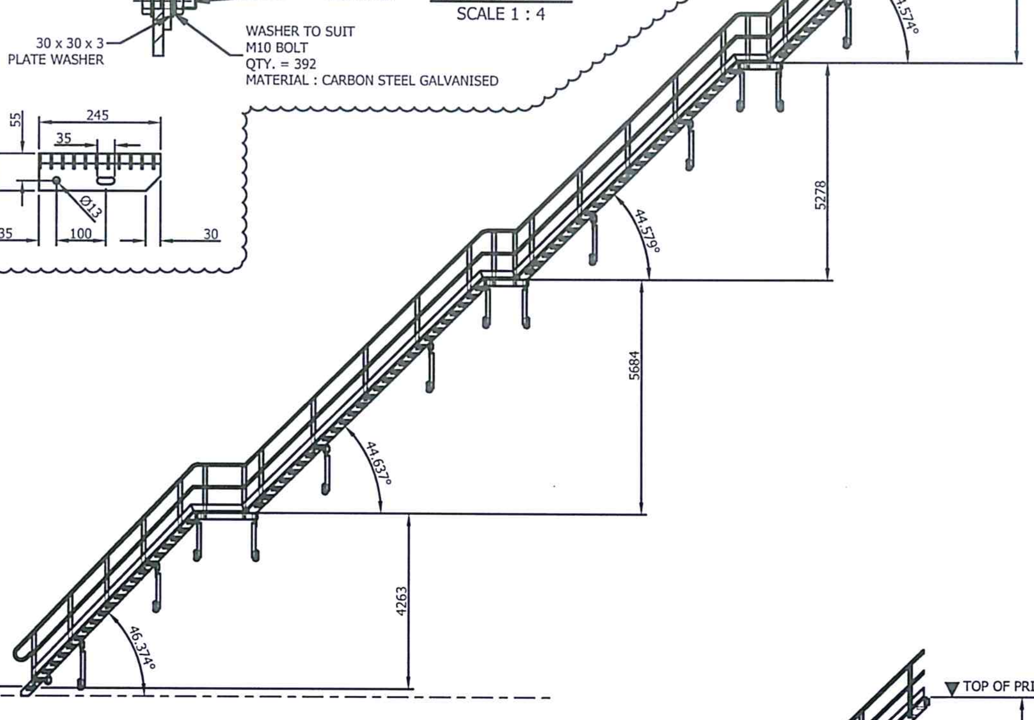
DIMS. IN mm
FORMAT: A2

DRAWING NO.:
1251-100-116-02-XX-D01-029

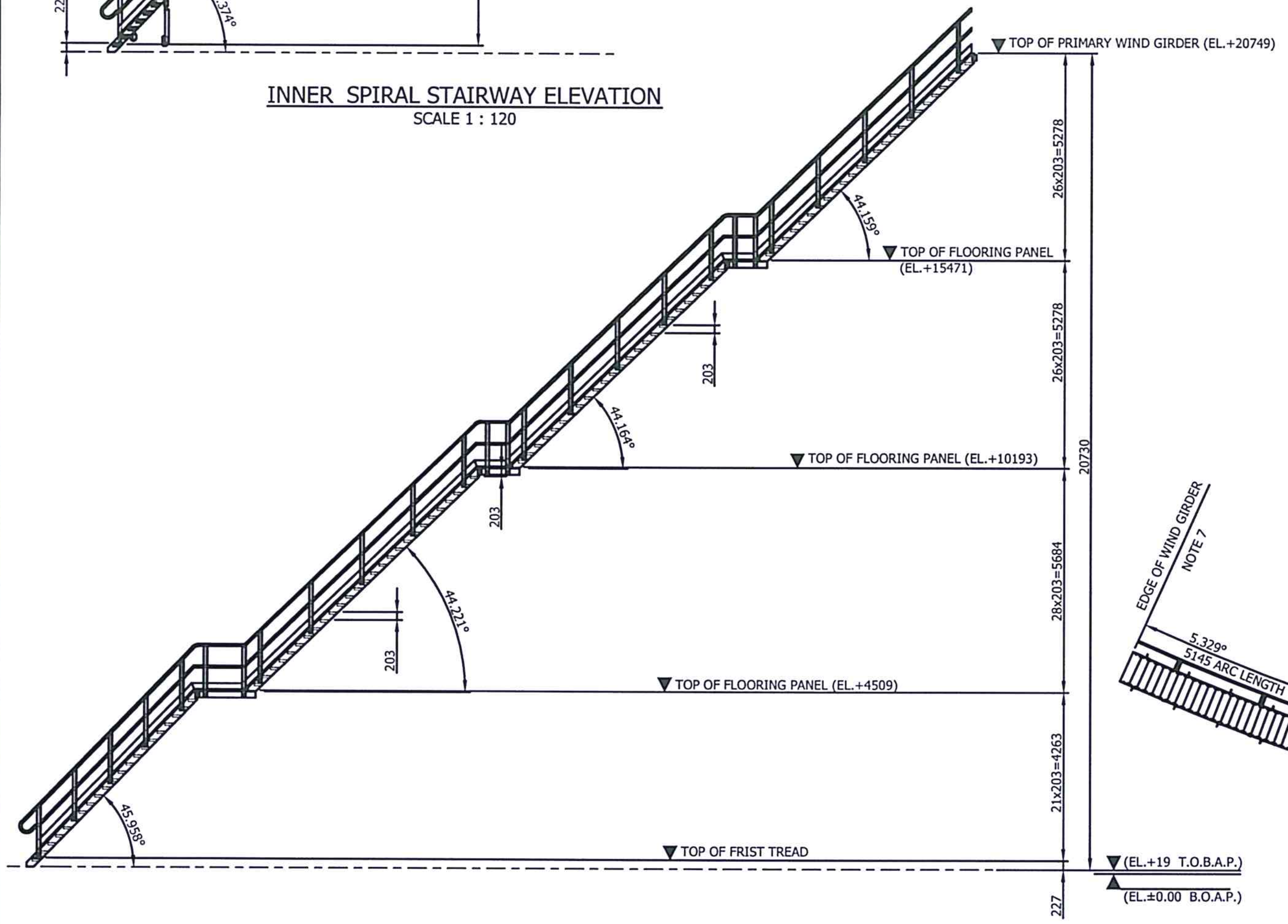
SHEET No. 1 OF 1
REVISION 3



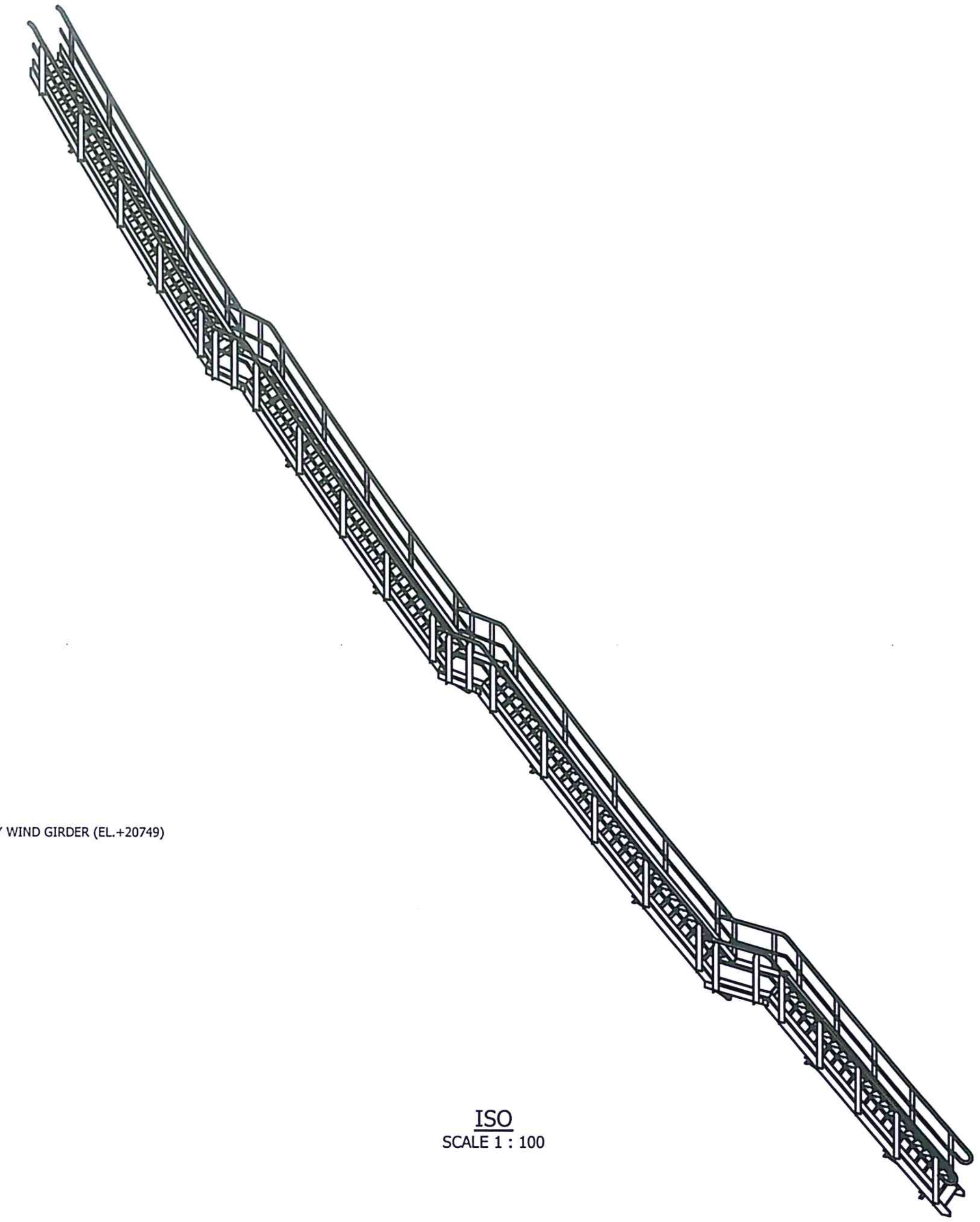
SECTION Y-Y
SCALE 1 : 4



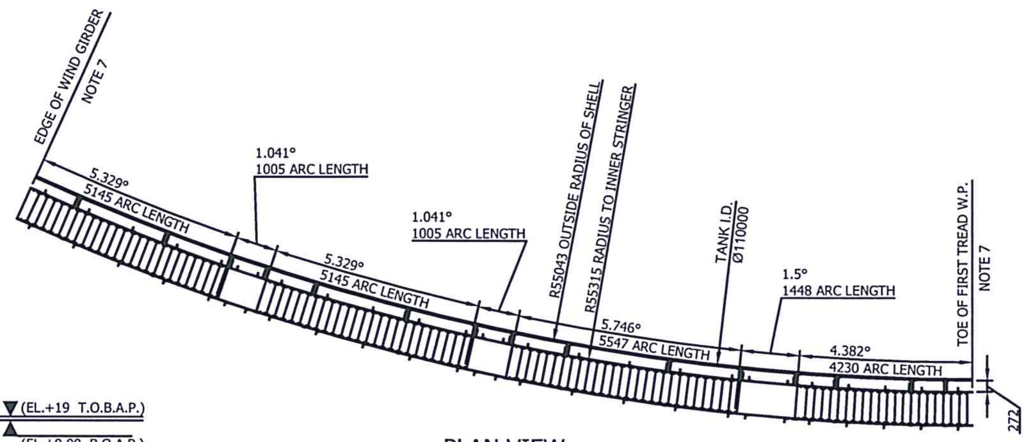
INNER SPIRAL STAIRWAY ELEVATION
SCALE 1 : 120



OUTER SPIRAL STAIRWAY ELEVATION
SCALE 1 : 120



ISO
SCALE 1 : 100



PLAN VIEW
SCALE 1 : 120

GENERAL NOTES:

1. ALL WELD TO BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.
2. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL.
3. TREADS TO BE OPEN GRATING USING 35x5 LB BARS WITH SEPARATE TOP EDGE AT 30 CENTERS & 6x6 TWISTED TRANSVERSE BARS AT 50 CENTERS.
4. TREADS TO BE HOT DIP GALVANIZED TO BS 720.
5. 4-OFF FIXING CLIPS REQUIRED PER TREAD.
6. FLOORING PANELS TO HAVE A MINIMUM OF 4-OFF FIXING CLIPS PER PANEL.
7. THIS DRAWING IS FOR FABRICATION ONLY. FOR SPIRAL STAIR ORIENTATION REFER TO DRAWING NO. 1251-100-116-02-XX-B01-002.
8. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-031.
9. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 1251-100-116-02-XX-B01-001.

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
B.O.A.P. – BOTTOM OF ANNULAR PLATE
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

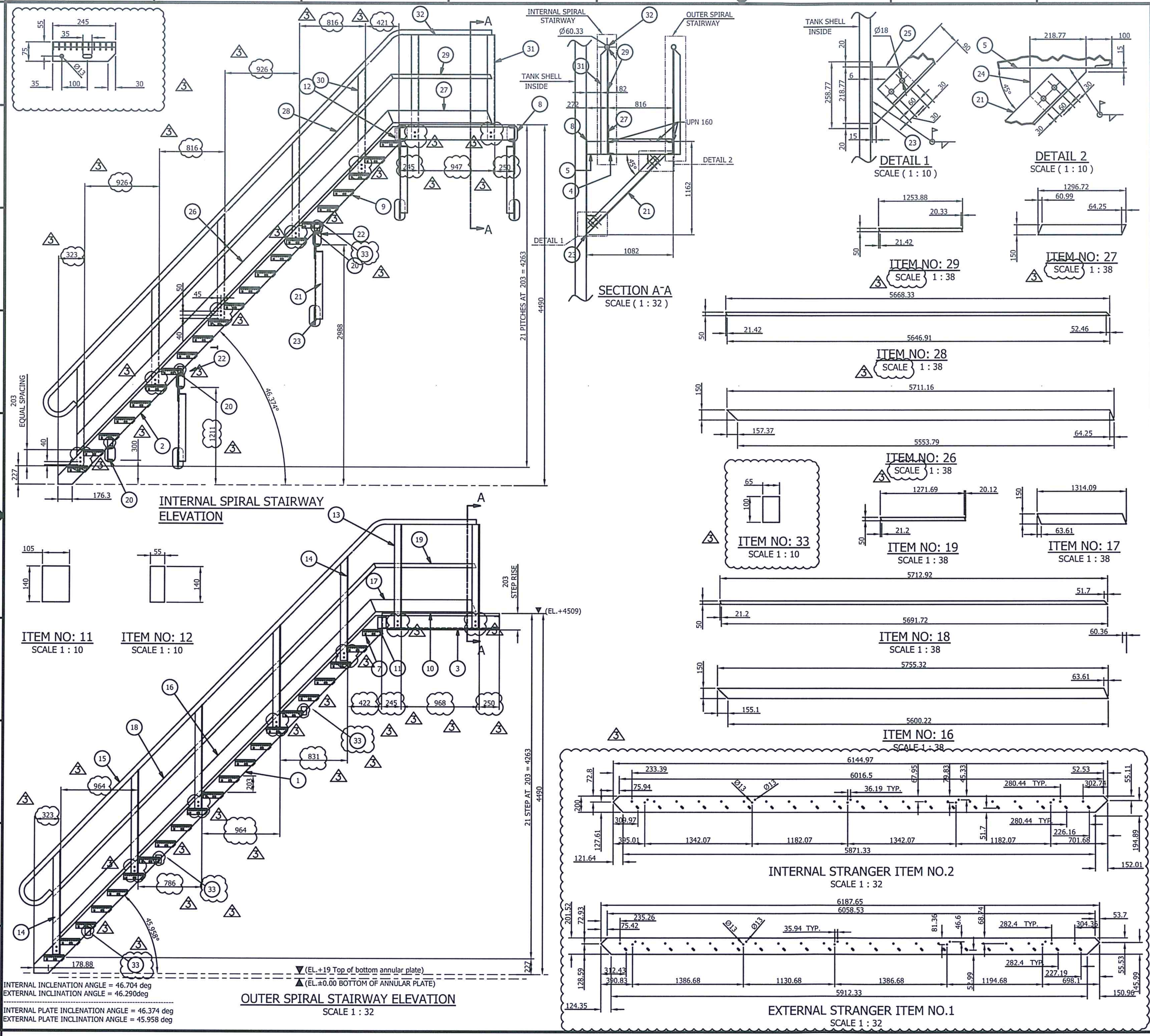
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Arrangement of Spiral Stair for Tanks

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-030	SHEET No. 1 OF 1	REVISION 3



GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–030.
2. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

ITEM	DESCRIPTION	QTY.	MATERIA	MASS kg
1	PL. 6188 x 202 x 8	1	ASTM A283 GR C	75
2	PL. 6145 x 200 x 8	1	ASTM A283 GR C	74
3	Euro, UPN 160, L = 1458	1	ST. 44	27.86
4	Euro, UPN 160, L = 1422	1	ST. 44	26.67
5	Euro, UPN 160, L = 1082	2	ST. 44	41.69
6	DELETED	-	-	-
7	DELETED	-	-	-
8	PL. 200 x 130 x 6	2	ASTM A283 GR C	2.25
9	SPIRAL STAIR STEPS	21	CARBON STEEL GALVANISED	135.51
10	GRATING, 1458 x 800 x 35	1	CARBON STEEL GALVANISED	44.6
11	PL. 140 x 105 x 10	1	ASTM A283 GR C	1.15
12	PL. 140 x 55 x 10	1	ASTM A283 GR C	0.6
13	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
14	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.89
15	Pipe 2" NPS SCH.40 L = 8548	1	API 5L GR 8	41.82
16	PL. 5755 x 150 x 5	1	ASTM A283 GR C	33.24
17	PL. 1609 x 150 x 5	1	ASTM A283 GR C	7.37
18	PL. 5713 x 50 x 5	1	ASTM A283 GR C	11.14
19	PL. 1567 x 50 x 5	1	ASTM A283 GR C	2.46
20	Euro, UPN 160, L = 1082	3	ST. 44	63.17
21	Euro, L 90 x 90 x 9, L = 1183	4	ST. 44	57.01
22	PL. 200 x 130 x 6	3	ASTM A283 GR C	2.81
23	PL. 259 x 130 x 6	4	ASTM A283 GR C	5.93
24	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
25	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
26	PL. 5711 x 150 x 5	1	ASTM A283 GR C	32.97
27	PL. 1297 x 150 x 5	1	ASTM A283 GR C	7.27
28	PL. 5668 x 50 x 5	1	ASTM A283 GR C	11.05
29	PL. 1254 x 50 x 5	1	ASTM A283 GR C	2.42
30	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.86
31	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
32	Pipe 2" NPS SCH.40 L = 8486	1	API 5L GR 8	41.52
33	PL. 100 x 65 x 10	6	ASTM A283 GR C	18

TOTAL WEIGHT = 1027 KG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

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PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

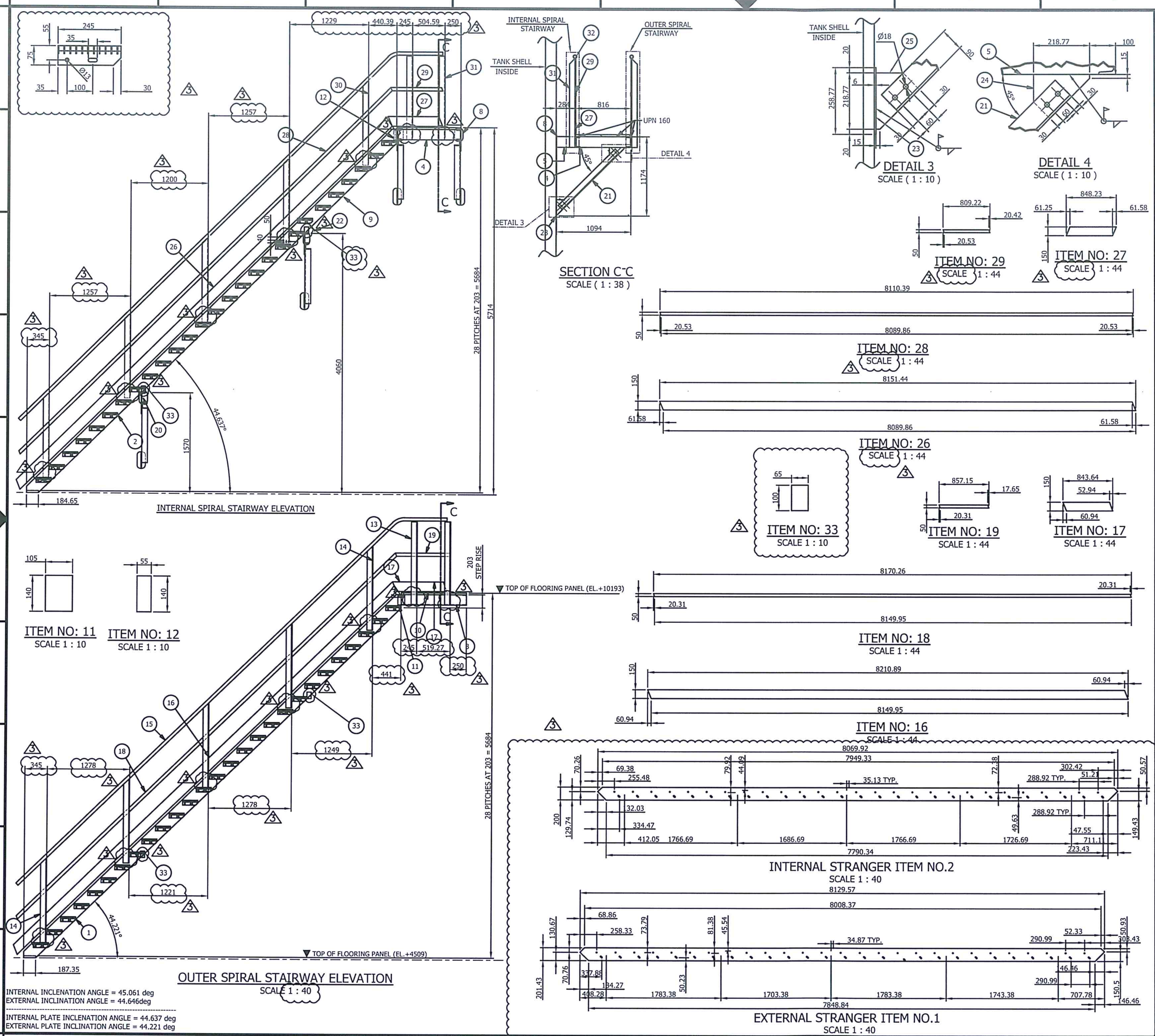
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Details of Spiral Stair for Tanks

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-031	1 OF 4	3



GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–030.
2. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

ITEM	DESCRIPTION	QTY.	MATERIA	MASS kg
1	PL. 8130 x 202 x 8	1	ASTM A283 GR C	101
2	PL. 8070 x 200 x 8	1	ASTM A283 GR C	99
3	Euro, UPN 160, L = 1009	1	ST. 44	19.05
4	Euro, UPN 160, L = 980	1	ST. 44	17.99
5	Euro, UPN 160, L = 1094	2	ST. 44	42.16
6	DELETED	-	-	-
7	DELETED	-	-	-
8	PL. 200 x 130 x 6	2	ASTM A283 GR C	2.25
9	SPIRAL STAIR STEPS	27	CARBON STEEL GALVANISED	174.23
10	GRATING, 1009 x 800 x 35	1	CARBON STEEL GALVANISED	31.2
11	PL. 140 x 105 x 10	1	ASTM A283 GR C	1.15
12	PL. 140 x 55 x 10	1	ASTM A283 GR C	0.6
13	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
14	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	77.48
15	Pipe 2" NPS SCH.40 L = 10034	1	API 5L GR 8	36.2
16	PL. 8211 x 150 x 5	1	ASTM A283 GR C	47.98
17	PL. 844 x 150 x 5	1	ASTM A283 GR C	4.63
18	PL. 8170 x 50 x 5	1	ASTM A283 GR C	15.99
19	PL. 857 x 50 x 5	1	ASTM A283 GR C	1.64
20	Euro, UPN 160, L = 1094	2	ST. 44	42.58
21	Euro, L 90 x 90 x 9, L = 1200	4	ST. 44	57.84
22	PL. 200 x 130 x 6	2	ASTM A283 GR C	1.96
23	PL. 259 x 130 x 6	4	ASTM A283 GR C	5.93
24	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
25	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
26	PL. 8151 x 150 x 5	1	ASTM A283 GR C	47.63
27	PL. 848 x 150 x 5	1	ASTM A283 GR C	4.63
28	PL. 8110 x 50 x 5	1	ASTM A283 GR C	15.88
29	PL. 809 x 50 x 5	1	ASTM A283 GR C	1.55
30	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	77.46
31	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
32	Pipe 2" NPS SCH.40 L = 9961	1	API 5L GR 8	35.98
33	PL. 100 x 65 x 10	4	ASTM A283 GR C	12

TOTAL WEIGHT = 1100 KG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

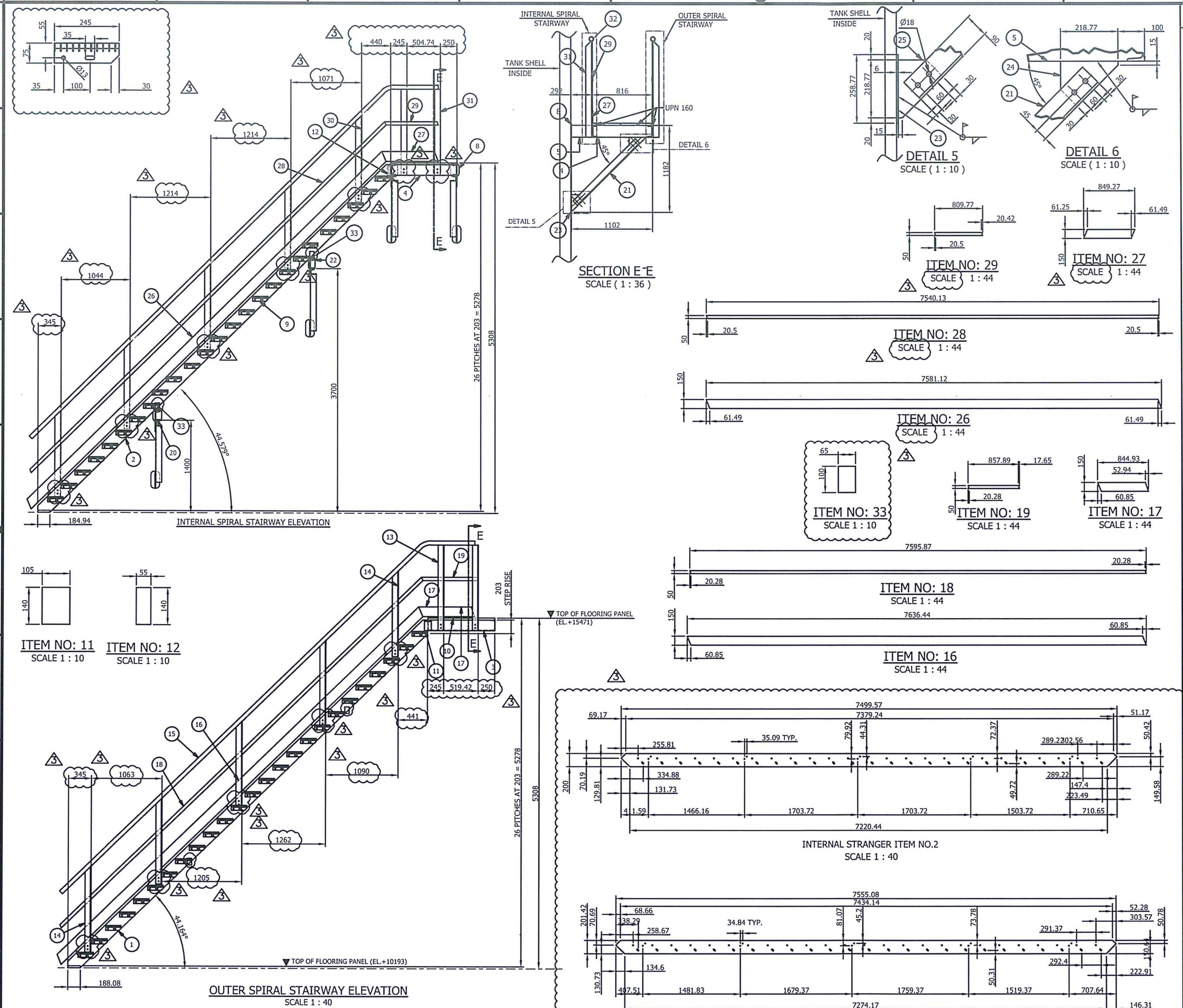
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Details of Spiral Stair for Tanks

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-031	2 OF 4	3



INTERNAL INCLENATION ANGLE = 45.042 deg
EXTERNAL INCLINATION ANGLE = 44.627deg

INTERNAL PLATE INCLENATION ANGLE = 44.579 deg
EXTERNAL PLATE INCLINATION ANGLE = 44.164 deg

GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251–100–116–02–XX–D01–030.
2. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

ITEM	DESCRIPTION	QTY.	MATERIA	MASS kg
1	PL. 7555 x 201 x 8	1	ASTM A283 GR C	94
2	PL. 7500 x 200 x 8	1	ASTM A283 GR C	93
3	Euro, UPN 160, L = 1009	1	ST. 44	19.05
4	Euro, UPN 160, L = 980	1	ST. 44	17.99
5	Euro, UPN 160, L = 1102	1	ST. 44	42.47
6	DELETED	-	-	-
7	DELETED	-	-	-
8	PL. 200 x 130 x 6	2	ASTM A283 GR C	2.25
9	SPIRAL STAIR STEPS	25	CARBON STEEL GALVANISED	161.33
10	GRATING, 1009 x 800 x 35	1	CARBON STEEL GALVANISED	31.2
11	PL. 140 x 105 x 10	1	ASTM A283 GR C	1.15
12	PL. 140 x 55 x 10	1	ASTM A283 GR C	0.6
13	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
14	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.98
15	Pipe 2" NPS SCH.40 L = 9459	1	API 5L GR 8	43.03
16	PL. 7636 x 150 x 5	1	ASTM A283 GR C	44.6
17	PL. 845 x 150 x 5	1	ASTM A283 GR C	4.64
18	PL. 7596 x 50 x 5	1	ASTM A283 GR C	14.87
19	PL. 858 x 50 x 5	1	ASTM A283 GR C	1.65
20	Euro, UPN 160, L = 1102	2	ST. 44	42.89
21	Euro, L 90 x 90 x 9, L = 1211	4	ST. 44	58.39
22	PL. 200 x 130 x 6	2	ASTM A283 GR C	1.96
23	PL. 259 x 130 x 6	4	ASTM A283 GR C	5.93
24	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
25	PL. 219 x 170 x 10	4	ASTM A283 GR C	7.11
26	PL. 7581 x 150 x 5	1	ASTM A283 GR C	44.27
27	PL. 1138 x 150 x 5	1	ASTM A283 GR C	4.64
28	PL. 7540 x 50 x 5	1	ASTM A283 GR C	14.76
29	PL. 1097 x 50 x 5	1	ASTM A283 GR C	1.55
30	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.95
31	Euro, L 90 x 90 x 9, L = 1300	2	ST. 44	31.34
32	Pipe 2" NPS SCH.40 L = 9390	1	API 5L GR 8	42.78
33	PL. 100 x 65 x 10	4	ASTM A283 GR C	12

TOTAL WEIGHT = 1076 KG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

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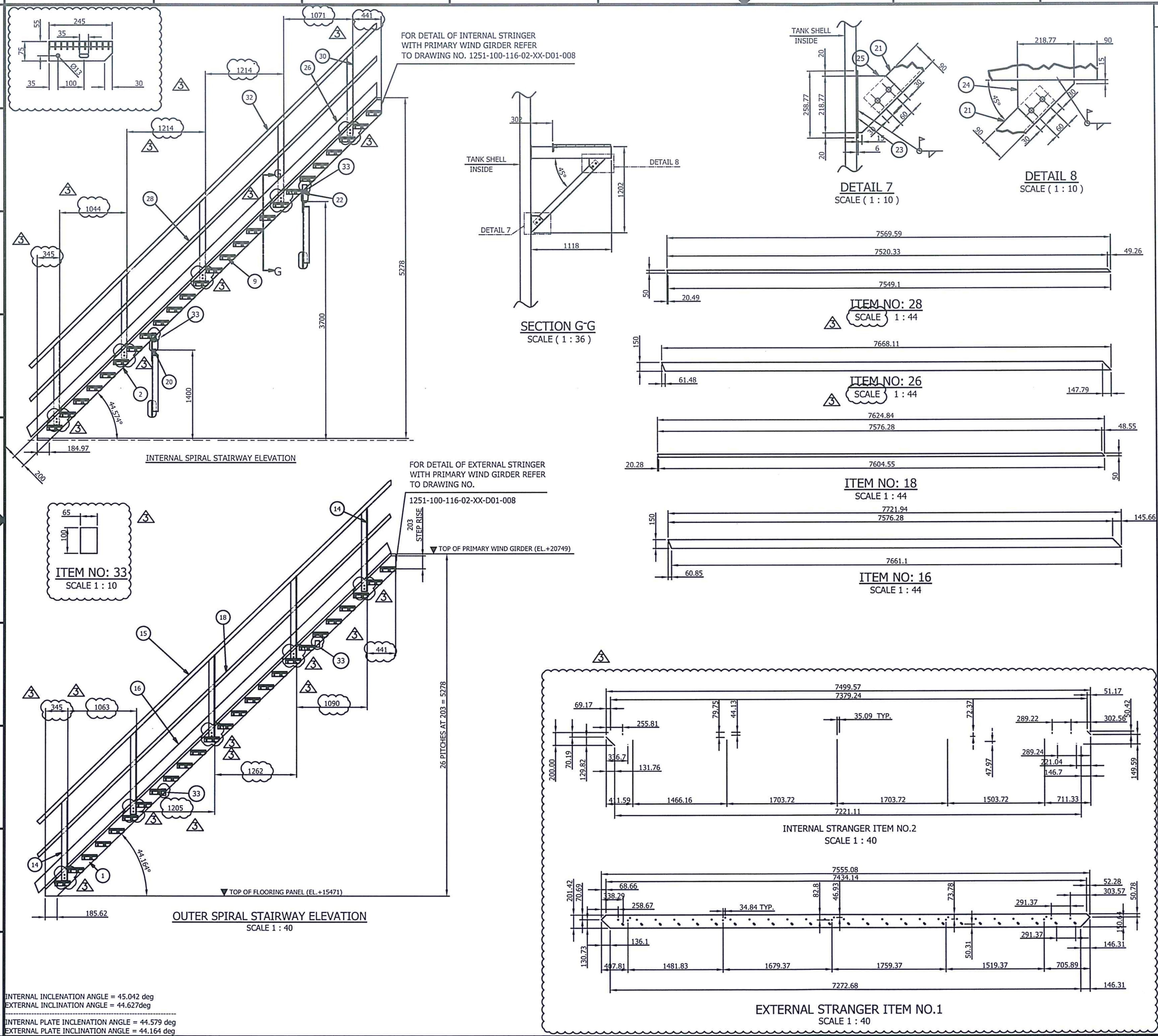
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Details of Spiral Stair for Tanks

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-031	3 OF 4	3



GENERAL NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH 1251-100-116-02-XX-D01-030.
2. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

ITEM	DESCRIPTION	QTY.	MATERIA	MASS kg
1	PL. 7556 x 201 x 8	1	ASTM A283 GR C	94
2	PL. 7500 x 200 x 8	1	ASTM A283 GR C	93
6	DELETED	-	-	-
7	DELETED	-	-	-
9	SPIRAL STAIR STEPS	25	CARBON STEEL GALVANISED	161.33
14	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.98
15	Pipe 2" NPS SCH.40 L = 9909	1	API 5L GR 8	38.97
16	PL. 7722 x 150 x 5	1	ASTM A283 GR C	44.86
18	PL. 7625 x 50 x 5	1	ASTM A283 GR C	14.9
20	Euro, UPN 160, L = 1112	2	ST. 44	43.28
21	Euro, L 90 x 90 x 9, L = 1225	2	ST. 44	29.71
22	PL. 200 x 130 x 6	2	ASTM A283 GR C	1.96
23	PL. 259 x 130 x 6	2	ASTM A283 GR C	2.97
24	PL. 219 x 170 x 10	2	ASTM A283 GR C	3.56
25	PL. 219 x 170 x 10	2	ASTM A283 GR C	3.56
26	PL. 7668 x 150 x 5	1	ASTM A283 GR C	44.53
28	PL. 7570 x 50 x 5	1	ASTM A283 GR C	14.79
30	Euro, L 90 x 90 x 9, L = 1300	5	ST. 44	76.95
32	Pipe 2" NPS SCH.40 L = 9834	1	API 5L GR 8	38.7
33	PL. 100 x 65 x 10	4	ASTM A283 GR C	12

TOTAL WEIGHT = 846 KG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	16/11/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	25/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	23/10/2019	ISSUED FOR APPROVAL	AL.Z.	M.H.	H.A.

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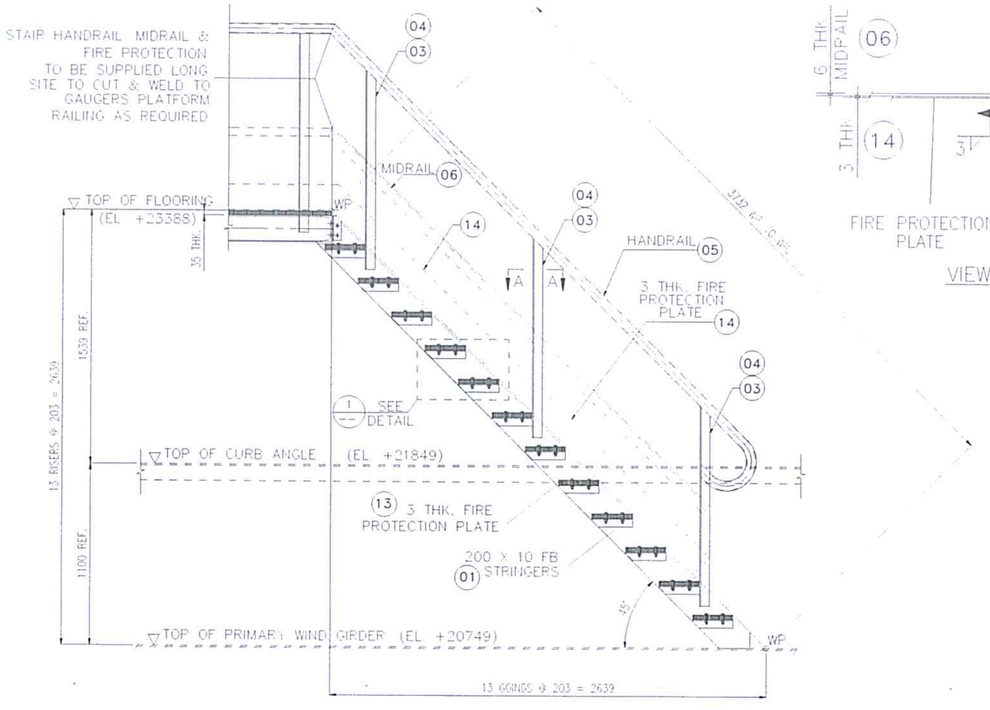
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

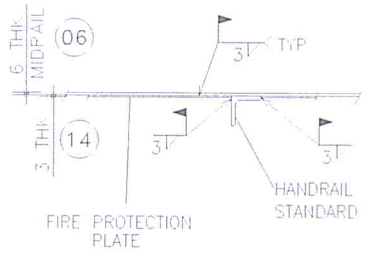
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Spiral Stair for Tanks

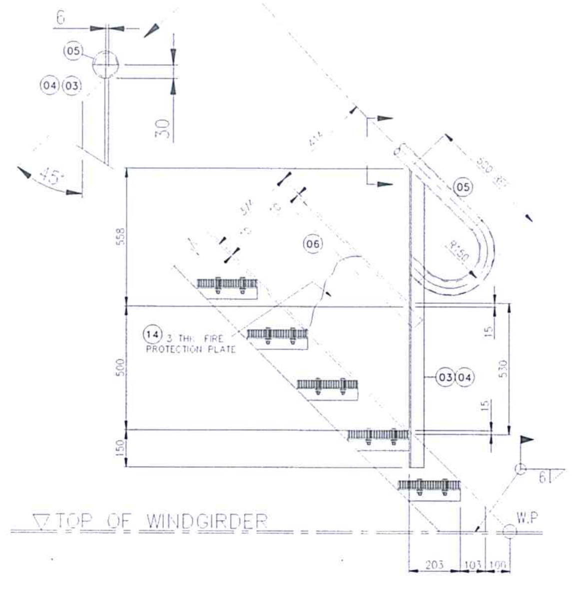
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-031	4 OF 4	3



ELEVATION ON GAUGERS PLATFORM ACCESS STAIR



VIEW ON A–A



DETAIL AT BOTTOM OF STAIR

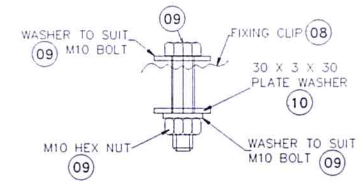
PARTS LIST (FOR 1- OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
01	.	2	ASTM A283.GR.C	STRINGER : 200 X 10 FB X 3626 LG. (SHAPED)
02	.	12	C. S. GALVANISED	TREADS : ALL AS PER DETAIL
03	.	3	ST.44	STANDARD : 60 X 60 X 6 RSA X 1208 LG.
04	.	3	ST.44	STANDARD : 60 X 60 X 6 RSA X 1208 LG.
* 05	.	2	API 5L GR.B	HANDRAIL : m/ f 2" NB SCH 40 X 4100
* 06	.	2	ST.44	MIDRAIL 50 X 60 X 6 RSA X 3300 LG
07	.	24	ST.44	SUPPORT : 50 X 50 X 5 RSA X 280 LG.
08	48	.	C. S. GALVANISED	FIXING CLIP : TO SUIT TREAD
09	48	.	ASTM A307 GR.B GALVANIZED	BOLT : M10 X 65 LG. c/w 1 NUT & 2 WASHER
10	48	.	C. S. GALVANISED	WASHER : 30 X 3 X 30 c/w Ø18 HOLE IN CENTRE
11	1	.	ST.44	CLEAT : 60 X 60 X 6 RSA X 150 LG.
12	1	.	ST.44	CLEAT : 60 X 60 X 6 RSA X 150 LG.
13	1	.	ASTM A283.GR.C	FIRE PROTECTION PLATE : 870 X 3 THK. X 3500 LG.
14	2	.	ASTM A283.GR.C	FIRE PROTECTION PLATE : 2000 X 3 THK. X 10000 LG.
15	4	.	ASTM A193 GR.B7/A194 GR.2H	BOLT : M16 X 40 LG. c/w NUT & WASHER

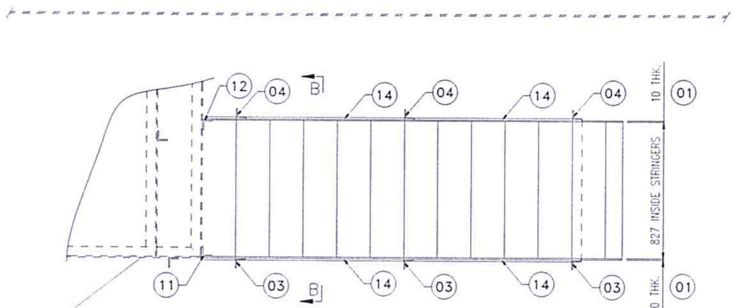
*SUPPLIED LOG SITE TRIM AND WELDS AS REQUIRED

GENERAL NOTES

1. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS U.N.O
2. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL
3. TREADS TO BE OPEN GRATING USING 35 X 5 LB BARS WITH SERRATED TOP EDGE AT 30 CENTERS AND 6 X 6 TWISTED TRANSVERSE BARS AT 50 CENTERS. FLOORING TO BE HOT DIPPED GALVANIZED TO BE ASTM A1011 / A1011M TYPE B Gr. 36. (3)
4. 4–OFF FIXING CLIPS REQUIRED PER TREAD
5. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG NO 1251–100–116–02–XX–B01–001
6. BOLTING / NUTS AND CLIPS SHALL BE HDG.

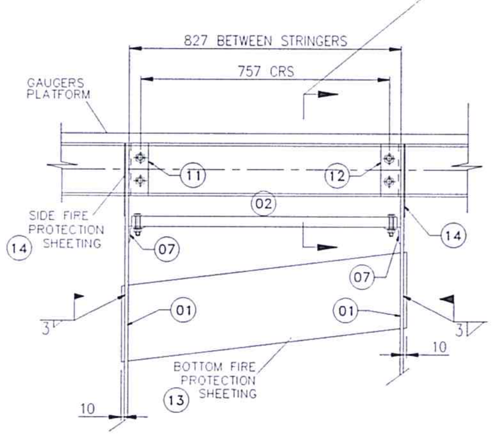


FIXING CLIP DETAIL

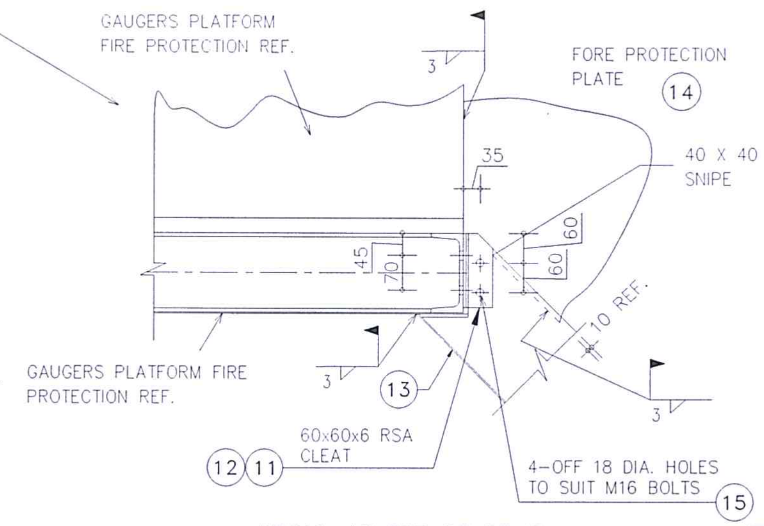


FOR DETAILS OF GAUGERS PLATFORM SEE DRAWING
1251–100–116–02–XX–D01–033
1251–100–116–02–XX–D01–034

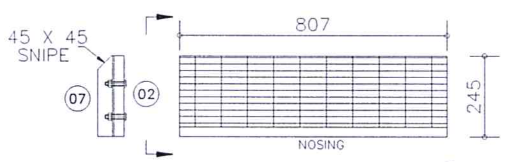
PLAN ON GAUGERS PLATFORM ACCESS STAIR



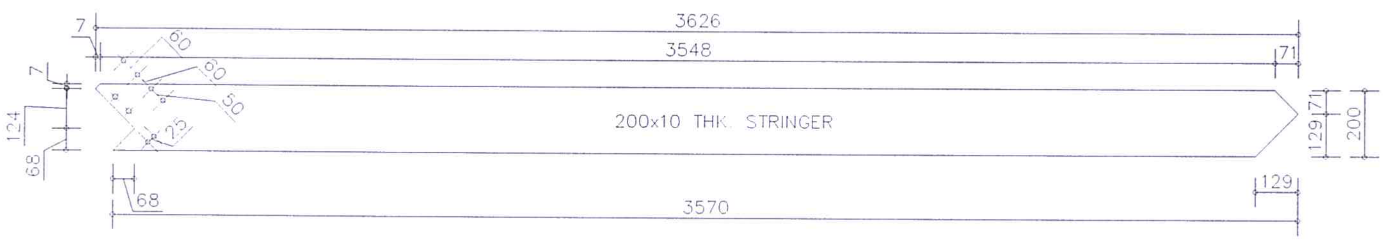
SECTION B–B



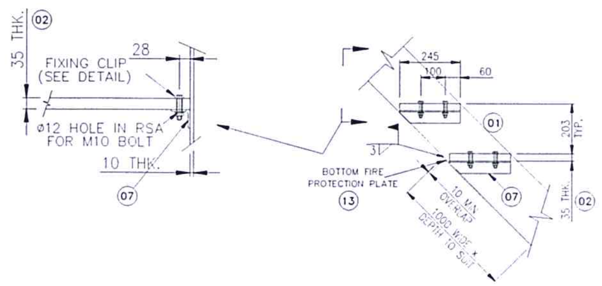
DETAIL AT TOP OF STAIR



DETAIL OF STAIR TREADS (02)
12–OFF REQUIRED



DETAIL OF STRINGER (01)
(2 OFF REQUIRED)



DETAIL (1)

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	OSAMA	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

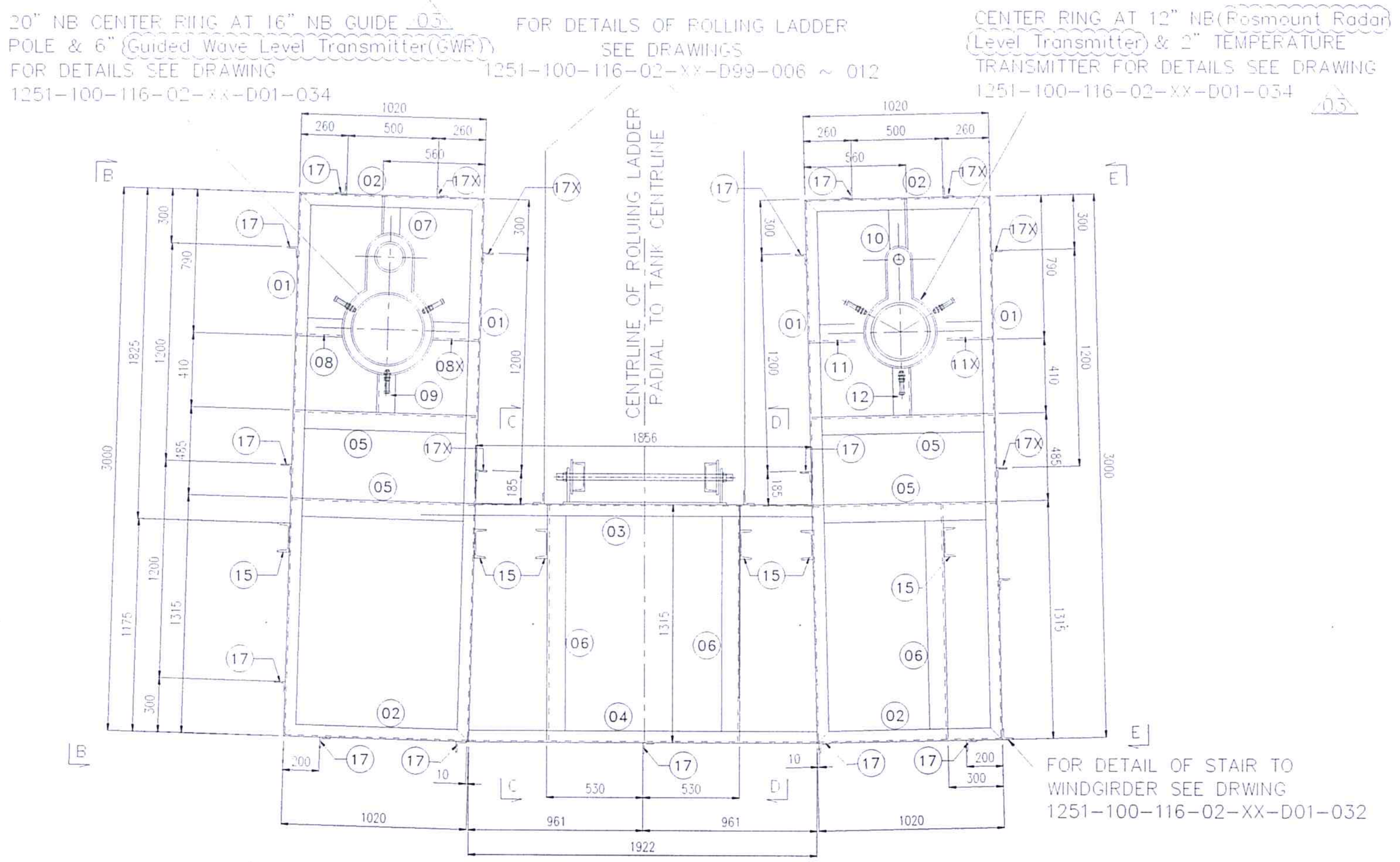
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

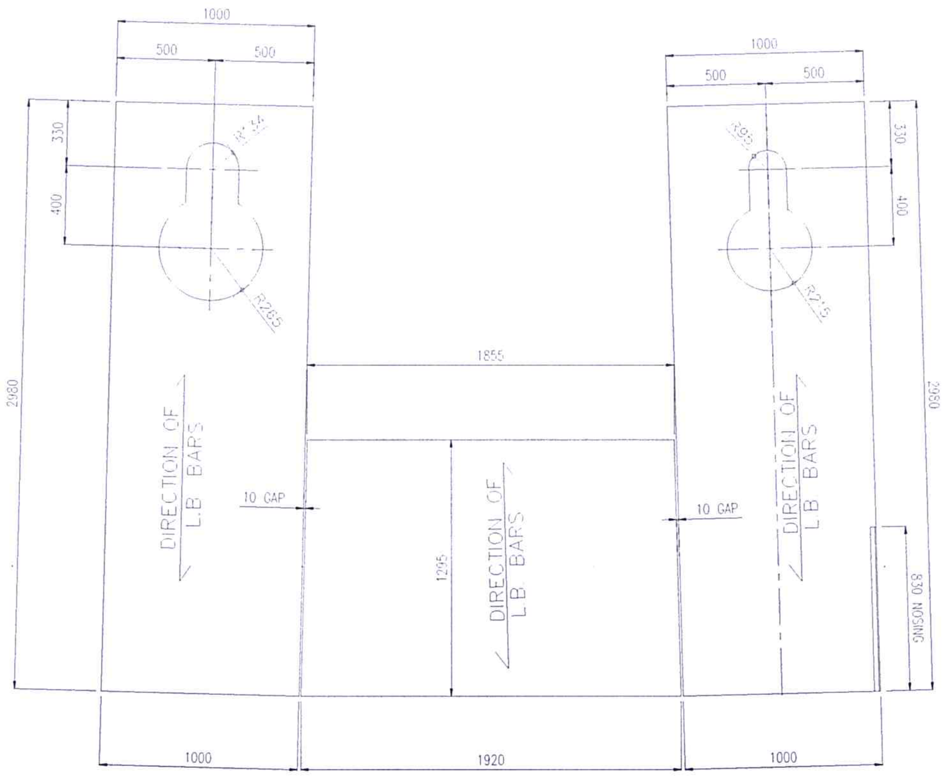
CRUDE OIL STORAGE TANK
TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Details of Gaugers Platform Access Stair

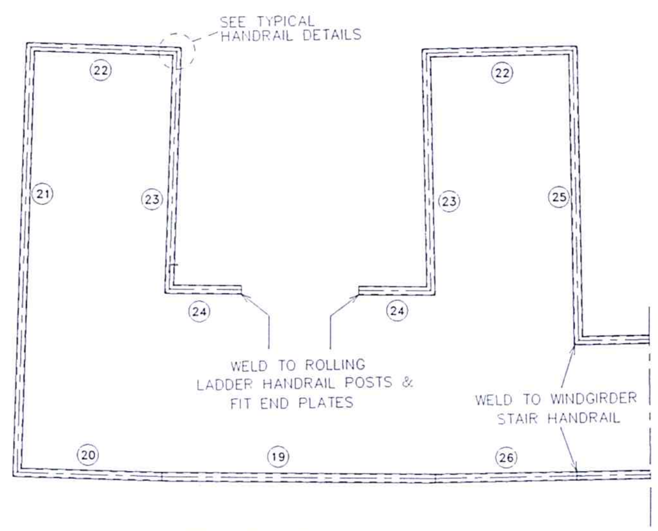
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-032	1 OF 1	3



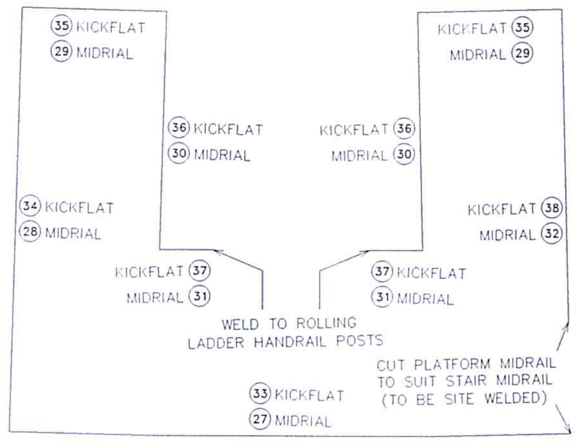
PLAN ON GAUGERS PLATFORM
(HANDRAIL & FLOORING OMITTED FOR CLARITY)



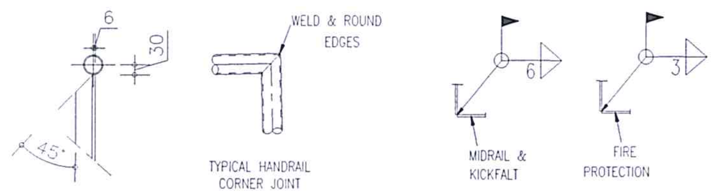
DETAIL OF PLATFORM FLOORING (52)



DETAIL OF PLATFORM HANDRAIL
NOTE: ITEMS 25 & 36 SUPPLIED LONG. SIT TRIM AS REQUIRED

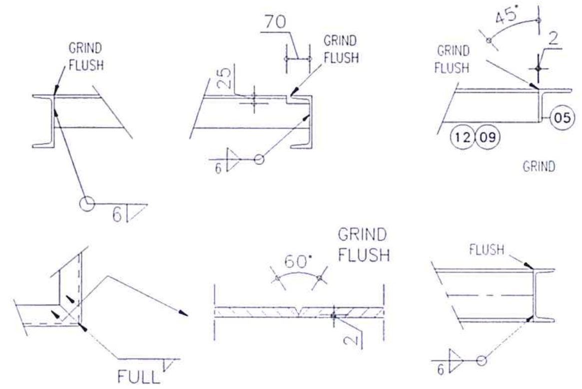


DETAIL OF PLATFORM MIDRAIL & KICKFLAT
NOTE. ITEMS 27 & 32 SUPPLIED LONG. SIT TRIM AS REQUIRED



TYPICAL RAILING WELD DETAILS

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D01-034.



TYPICAL PLATFORM DETAILS

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	OSAMA	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

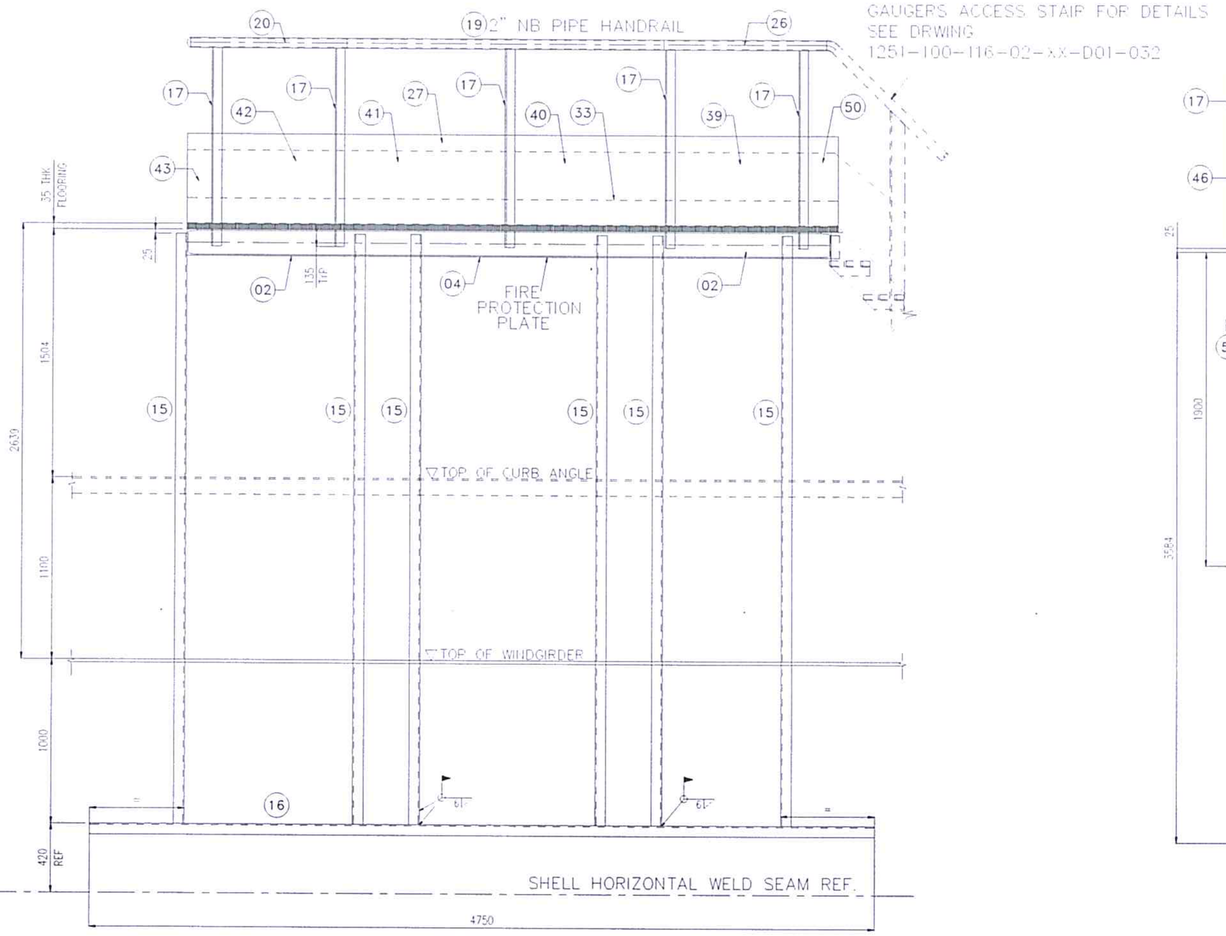
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO - A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

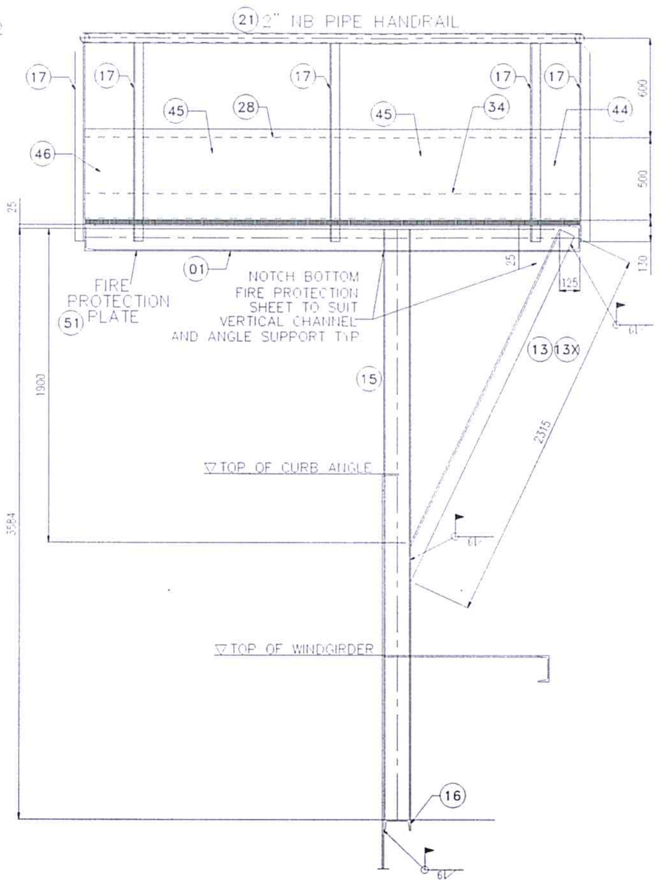
Details of Gaugers Platform Access Stair

DIMS. IN mm / FORMAT A2	DRAWING NO.: 1251-100-116-02-XX-D01-033	SHEET No. 1 OF 1	REVISION 03



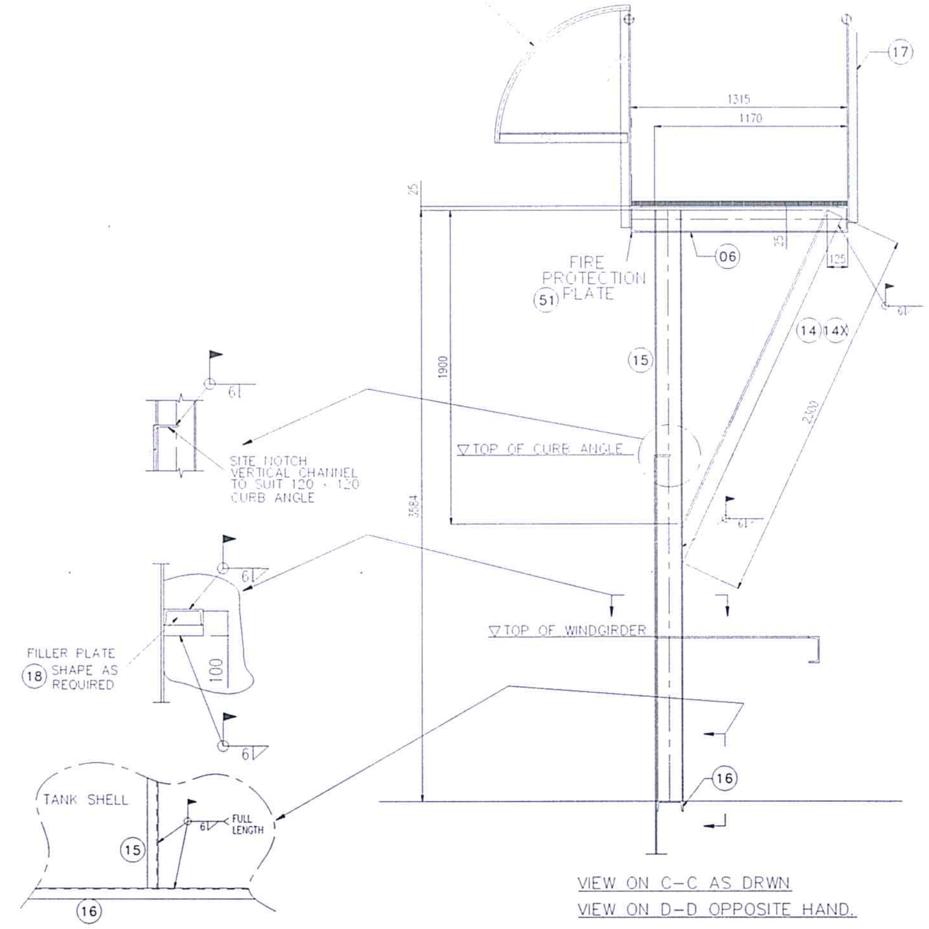
GAUGERS ACCESS STAIR FOR DETAILS SEE DRWING 1251-100-116-02-XX-D01-032

VIEW ON A-A



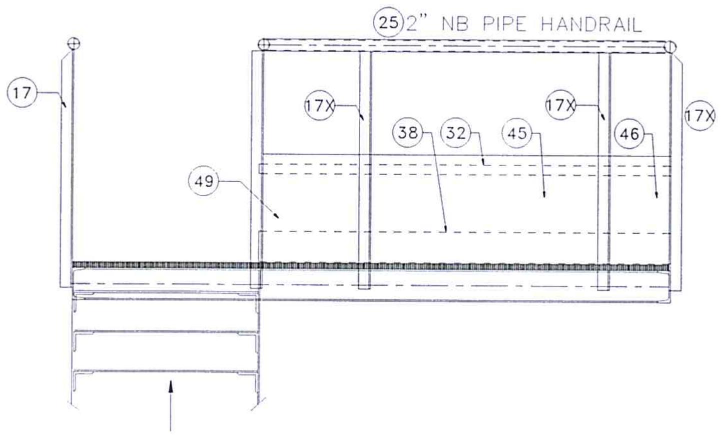
VIEW ON B-B

FOR DETAILS OF ROLLING LADDER SEE DRAWING 1251-100-116-02-XX-D99-006 ~ 012



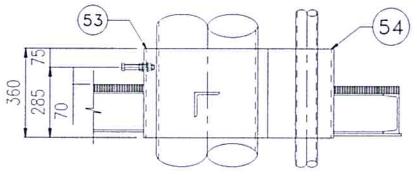
VIEW ON C-C AS DRWN

VIEW ON D-D OPPOSITE HAND.

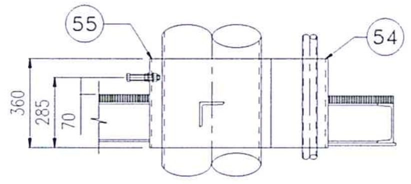


FOR DETAILS OF STAIR TO WINDGIRDER SEE DRWING 1251-100-116-02-XX-D01-032

VIEW ON E-E

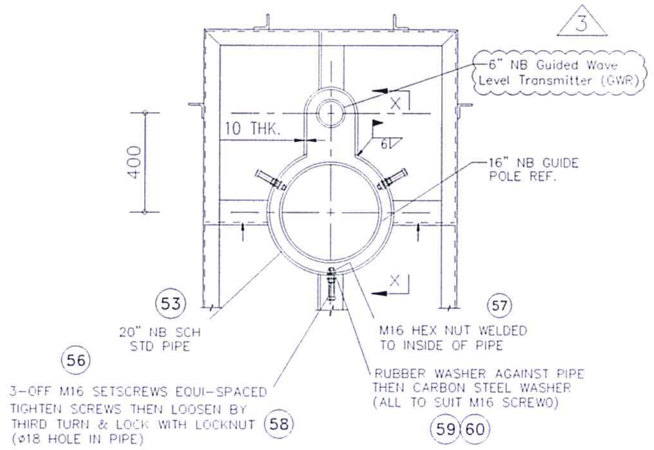


SECTION ON X-X

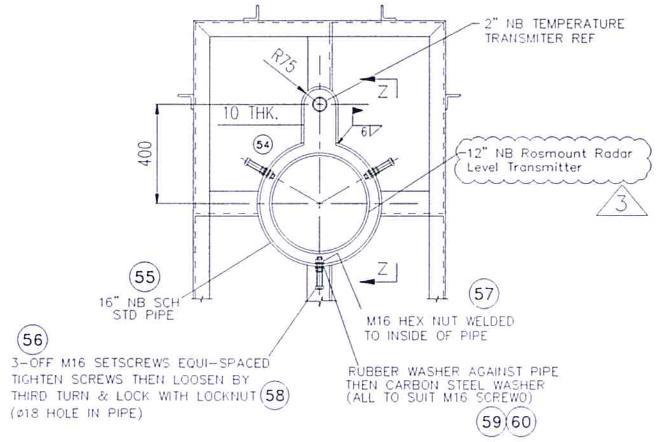


SECTION ON Z-Z

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D01-033.



DETAIL OF CENTER RING TO SUIT 16" NB GAUGE POLE & 6" NB GUIDED WAVE LEVEL TRANSMITTER



DETAIL OF CENTER RING TO SUIT 12" NB RADAR GAUGE POLE & 2" NB TEMPERATURE TRANSMITTER

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTIO	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTIO	M.D.	M.H.	H.A.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	OSAMA	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

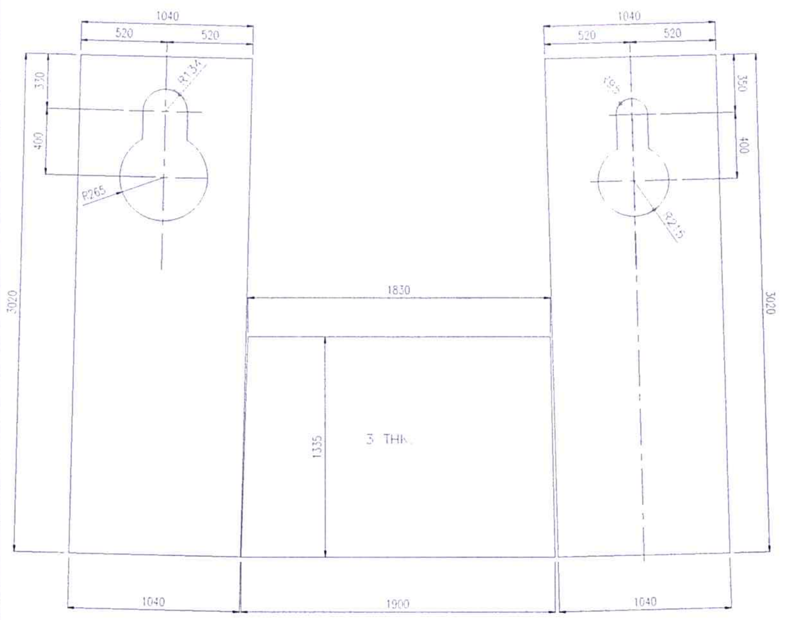
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO-A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

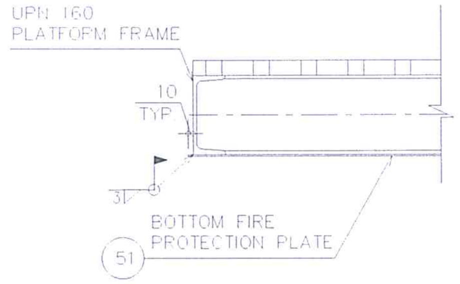
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Gaugers Platform

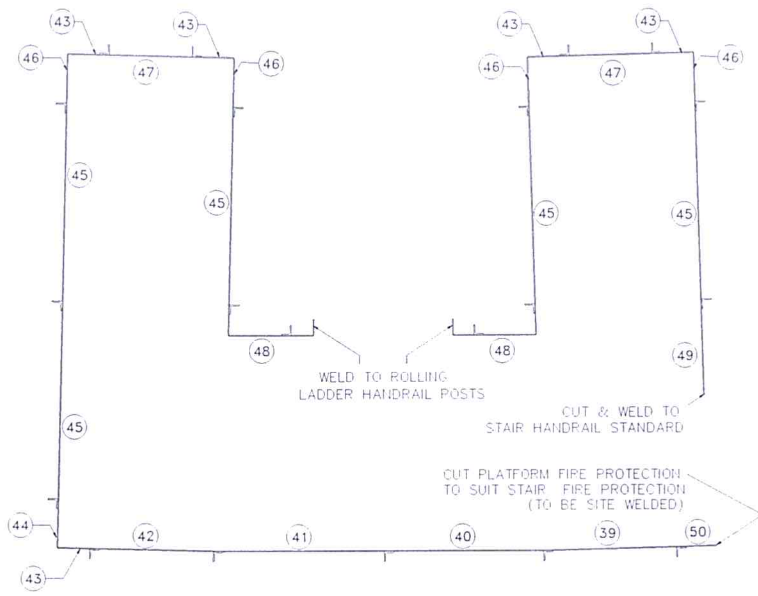
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-034	1 OF 2	3



DETAIL OF BOTTOM FIRE PROTECTION PLATE (51)

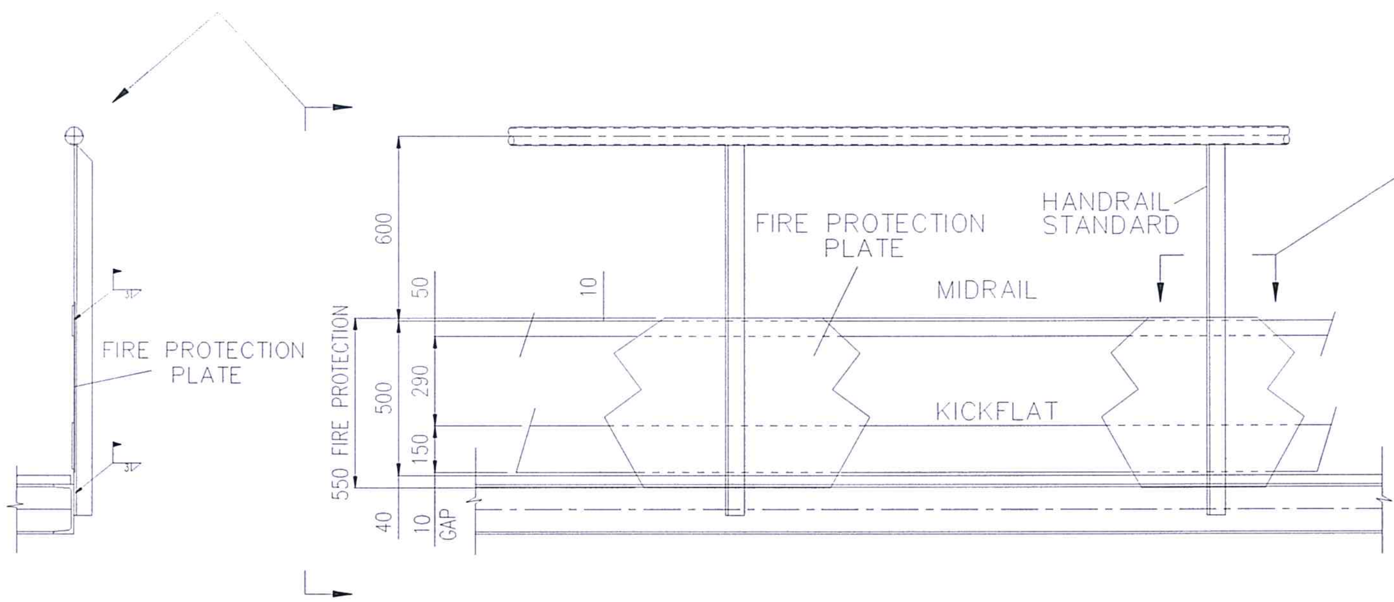


DETAIL OF FIRE PROTECTION PLATE TO PLATFORM FRAME

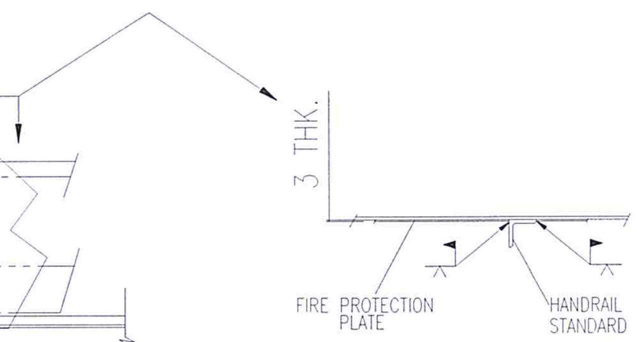


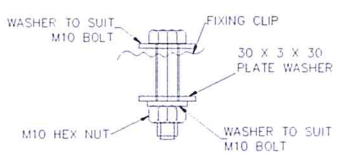
DETAIL OF SIDE FIRE PROTECTION PLATE

NOTE : ITEMS 49 & 50 SUPPLIED LOG , SIT TRIM AS REQUIRED



TYPICAL DETAIL OF FIRE PROTECTION ON PLATFORM





FIXING CLIP DETAIL

PARTS LIST (FOR 1- OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	.	4	ST.44	FRAME CHANNEL :UPN160X2985 LG.
2	.	4	ST.44	FRAME CHANNEL :UPN160X1005 LG.
3	.	1	ST.44	FRAME CHANNEL :UPN160X1856 LG.
4	.	1	ST.44	FRAME CHANNEL :UPN160X1922 LG.
5	.	4	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 1005 LG.
6	.	3	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 1300 LG.
7	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 180 LG.
8	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 251 LG.
08X	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 251 LG.
9	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 209 LG.
10	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 263 LG.
11	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 303 LG.
11X	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 303 LG.
12	.	1	ST.44	SUPPORT ANGLE : 100 X 100 X 10L X 261LG.
13	.	2	ST.44	BRACE ANGLE : 100 X 100 X 10L X 2315 LG.
13X	.	2	ST.44	BRACE ANGLE : 100 X 100 X 10L X 2315 LG.
14	.	1	ST.44	BRACE ANGLE : 100 X 100 X 10L X 2300 LG.
14X	.	1	ST.44	BRACE ANGLE : 100 X 100 X 10L X 2300 LG.
15	6	.	ST.44	UPRIGHT CHANNEL : UPN 160 X3545 LG.
16	1	.	ST.44	SEATING CHANNEL : UPN 160 X4750 LG.(ROLLED)
17	.	12	ST.44	HANDRAIL STANDARDS : 60 X 60 X 8L X 1200 LG.
17X	.	6	ST.44	HANDRAIL STANDARDS : 60 X 60 X 8L X 1200 LG.
18	6	.	ASTM A283.GR.C	FILLER PLATE : 100 X 6 X 160
19	.	1	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 1917 LG.
20	.	1	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 1056 LG.
21	.	1	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 3072 LG.
22	.	2	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 1092 LG.
23	.	2	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 1742 LG.
24	.	2	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 401 LG.
*25	.	1	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 2350 LG.
*26	.	1	API 5L GR.B	HANDRAIL : m/f 2" NB SCH 40 X 1100 LG.
*27	.	1	ST.44	MIDRAIL : 50 X 6 FB X 4050 LG.
28	-	1	ST.44	MIDRAIL : 50 X 6 FB X 2988 LG.
29	.	2	ST.44	MIDRAIL : 50 X 6 FB X 1008 LG.
30	.	2	ST.44	MIDRAIL : 50 X 6 FB X 1678 LG.
31	.	2	ST.44	MIDRAIL : 50 X 6 FB X 370 LG.
*32	.	1	ST.44	MIDRAIL : 50 X 6 FB X 2300 LG.
33	.	1	ST.44	KICKFALT : 150 X 6 FB X 3950 LG.
34	.	1	ST.44	KICKFALT : 150 X 6 FB X 2988 LG.
35	.	2	ST.44	KICKFALT : 150 X 6 FB X 1008 LG.
36	.	2	ST.44	KICKFALT : 150 X 6 FB X 1678 LG.
37	.	2	ST.44	KICKFALT : 150 X 6 FB X 370 LG.
38	.	1	ST.44	KICKFALT : 150 X 6 FB X 2143 LG.
39	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 750 LG.
40	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 911 LG.
41	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 971 LG.
42	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 690 LG.
43	.	5	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 200 LG.
44	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 240 LG.
45	.	5	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 1140 LG.
46	.	4	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 300 LG.
47	.	2	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 500 LG.
48	.	2	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 313 LG.
49	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 590 LG.
50	.	1	ASTM A283.GR.C	FIRE PROTECTION : 550 X 3 THK X 200 LG.
51	.	1	ASTM A283.GR.C	BOTTOM FIRE PROTECTION : 3 THK AS PEP DRAWING
52	1	.	CARBON STEEL GALVANISED	FLOORING : ALL AS PER DRAWING (SEE NOTE 4)
53	.	1	ASTM A106 GR.B	PIPE : 20" NB SCH STD X 360 LG.
54	.	2	ASTM A283.GR.C	PLATE : 360 X 10 X 680 (FORMED AS DETAIL)
55	.	1	ASTM A106 GR.B	PIPE : 16" NB SCH STD X 360 LG.
56	6	.	ASTM A307 GR.B	SETSCREWS : M16 X 115 LG.
57	6	.	ASTM A307 GR.B	HEX NUTS : M16 TO SUIT SETSCREW
58	6	.	ASTM A307 GR.B	LOCKNUTS : M16 TO SUIT SETSCREW
59	6	.	CARBON STEEL	WASHERS : TO SUIT M16 SETSCREW
60	6	.	RUBBER	WASHERS : TO SUIT M16 SETSCREW

*SUPPLIED LOG. SITE TRIM AS REQUIRED

GENERAL NOTES

1. FOR ACTUAL LOCATION OF PLATFORM SEE ROOF ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-002 & 1251-100-116-02-XX-B01-003. (3)
2. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS U.N.O.
3. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL
4. FLOORING TO BE OPEN GRATING USING 35 X 5LB BARS AT 30 CENTERS. EDGE AT 30 CENTERS & 6 X 6 TWISTED TRANSVERSE BARS AT 50 CENTERS. FLOORING TO BE HOT DIPPED GALVANIZED TO BE ASTM A1011 / A1011m type B grade 36.
5. MINIMUM OF 4 FIXING CLIPS REQUIRED PER PANEL.
6. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D01-032 & 1251-100-116-02-XX-D01-033.
7. BOLTING / NUTS AND CLIPS SHALL BE HDG.
8. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG NO. 1251-100-116-02-XX-B01-001.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	02/03/2020	ISSUED FOR CONSTRUCTIO	M.D.	M.H.	H.A.
2	30/01/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	OSAMA	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

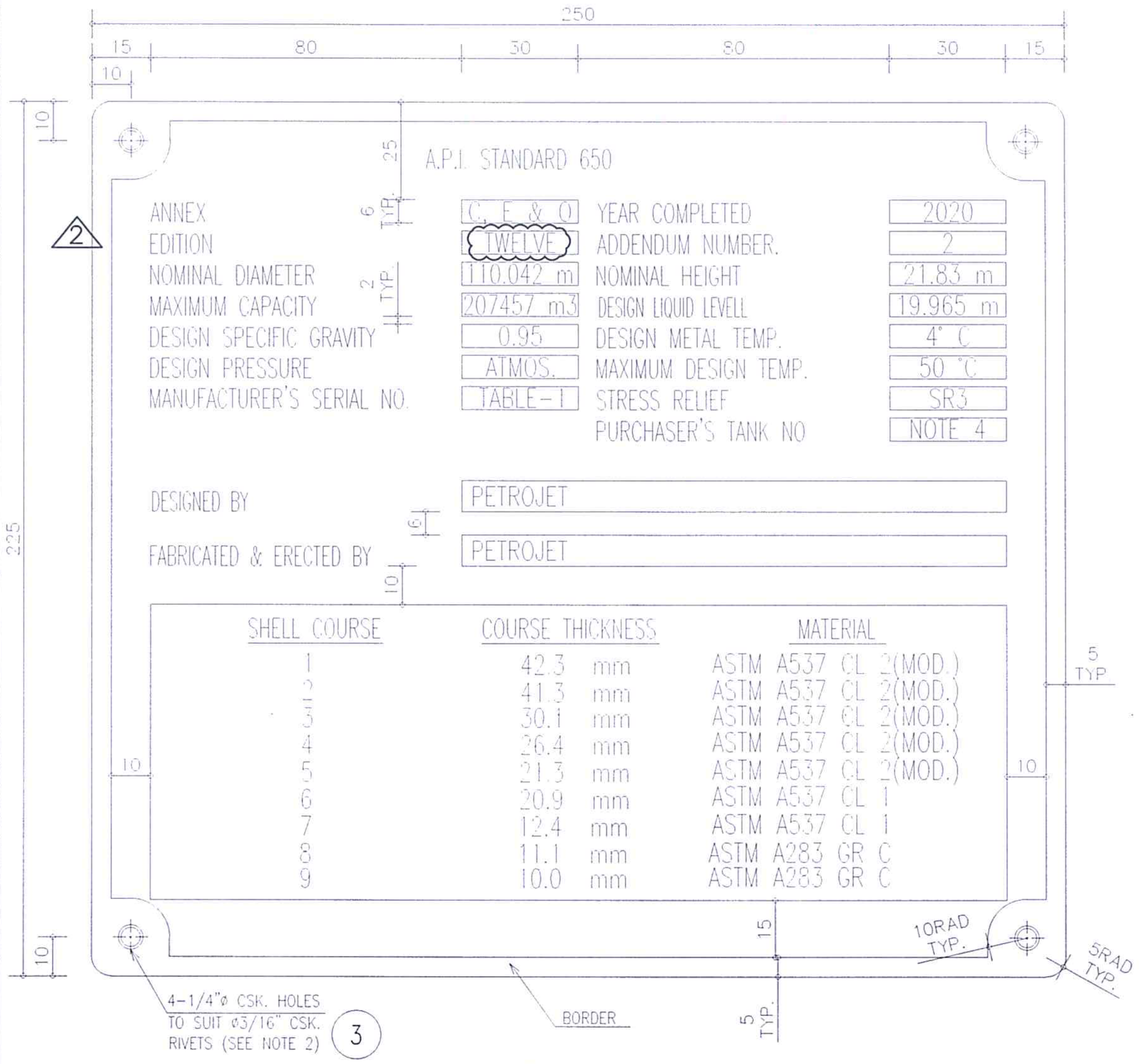
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO-A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

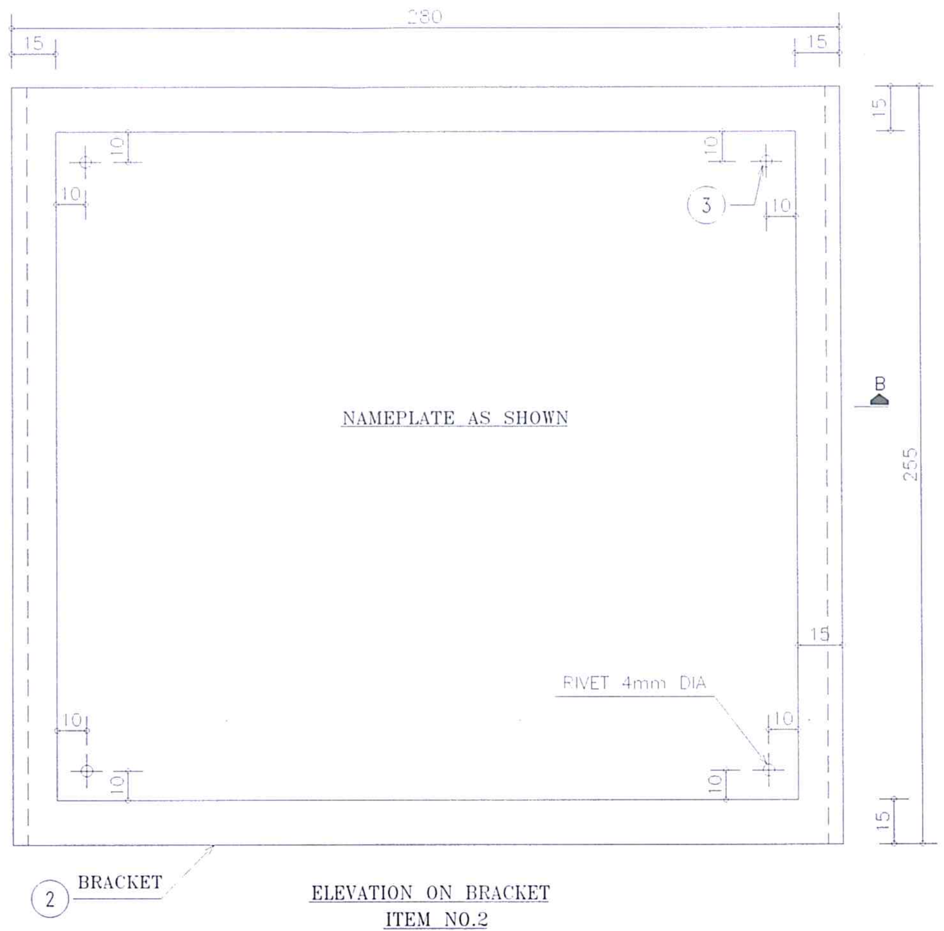
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Gaugers Platform

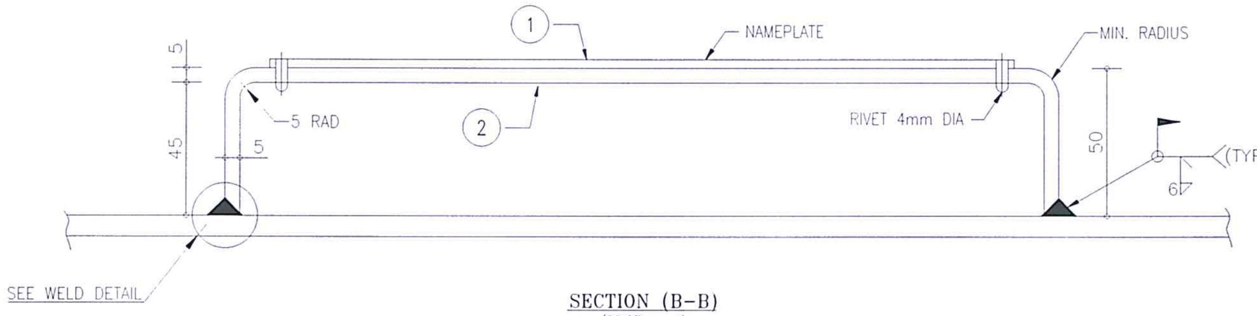
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-034	2 OF 2	3



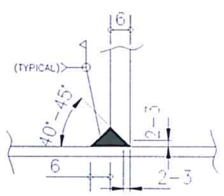
STAINLSS STEEL NAMEPLATE 1
29 OFF REQUIRED



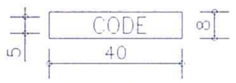
ELEVATION ON BRACKET
ITEM NO.2
(SCALE 1 : 1)



SECTION (B-B)
(SCALE 1 : 1)



WELD DETAIL
(SCALE 1 : 1)



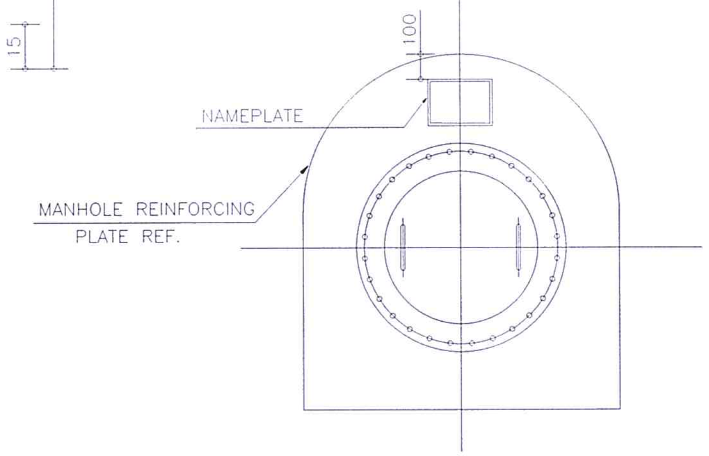
DETAIL A
(SCALE 1 : 1)

GENERAL NOTES

1. NAMEPLATE TO HAVE POLISHED FINISH WITH ENGRAVED BORDER & LETTERING IN-FILLED IN BLACK ENAMEL
2. NAMEPLATE TO BE FIXED ON BRACKET IN SHOP WITH 4ø3/16"X 3/4"LG S.S RIVETS CSK. RIVETS TO PENETRATE BRACKET END OF RIVETS TO BE BURRED OVER
3. LETTERS AND NUMERALS ON NAMEPLATE TO BE 4MM HIGH
4. THE TANK LOCATION, TAG NUMBER AND QYT SHALL BE:
   - 4.1 RAS SHUKIER 010-T-01/02/03/04/05 (QTY FIVE TANKS).
   - 4.2 RAS BADRAN MODULE 1 020-T-01/02/03 (QTY THREE TANKS)
   - 4.3 RAS BADRAN MODULE 2 021-T-01/02/03/04 (QTY FOUR TANKS)
   - 4.4 RAS BADRAN MODULE 3 022-T-01/02/03/04/05 (QTY FIVE TANKS)
   - 4.5 AGROOD MODULE 1 030-T-01/02/03/04 (QTY FOUR TANKS)
   - 4.6 AGROOD MODULE 2 031-T-01/02 (QTY TWO TANKS).
   - 4.7 RAS GHARIB 070-T-01/02/03/04/05/06 (QTY SIX TANKS).

PARTS LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	.	29	A240 TYPE 316	NAMEPLATE:3THK AS PER DRAWING
2	.	29	BS EN 10025 S275 JR	BRACKET :255X5THK X380
3	116	.	STAINLESS STEEL	RIVET :Φ3/16X3/4 LG



NAMEPLATE LOCATION ON MANHOLE COVER REF.'M2B'

PURCHASER'S TANK NO	MANUFACTURER'S SERIAL NO.	TANK LOCATION
010-T-01	1493	RAS SHUKIER
010-T-02	1494	RAS SHUKIER
010-T-03	1495	RAS SHUKIER
010-T-04	1496	RAS SHUKIER
010-T-05	1497	RAS SHUKIER
020-T-01	1498	RAS BADRAN MODULE 1
020-T-02	1499	RAS BADRAN MODULE 1
020-T-03	1500	RAS BADRAN MODULE 1
021-T-01	1501	RAS BADRAN MODULE 2
021-T-02	1502	RAS BADRAN MODULE 2
021-T-03	1503	RAS BADRAN MODULE 2
021-T-04	1504	RAS BADRAN MODULE 2
022-T-01	1505	RAS BADRAN MODULE 3
022-T-02	1506	RAS BADRAN MODULE 3
022-T-03	1507	RAS BADRAN MODULE 3
022-T-04	1508	RAS BADRAN MODULE 3
022-T-05	1509	RAS BADRAN MODULE 3
030-T-01	1510	AGROOD MODULE 1
030-T-02	1511	AGROOD MODULE 1
030-T-03	1512	AGROOD MODULE 1
030-T-04	1513	AGROOD MODULE 1
031-T-01	1514	AGROOD MODULE 2
031-T-02	1515	AGROOD MODULE 2
070-T-01	1516	RAS GHARIB
070-T-02	1517	RAS GHARIB
070-T-03	1518	RAS GHARIB
070-T-04	1519	RAS GHARIB
070-T-05	1520	RAS GHARIB
070-T-06	1521	RAS GHARIB

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	29/09/2019	ISSUED FOR APPROVAL	AMR	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

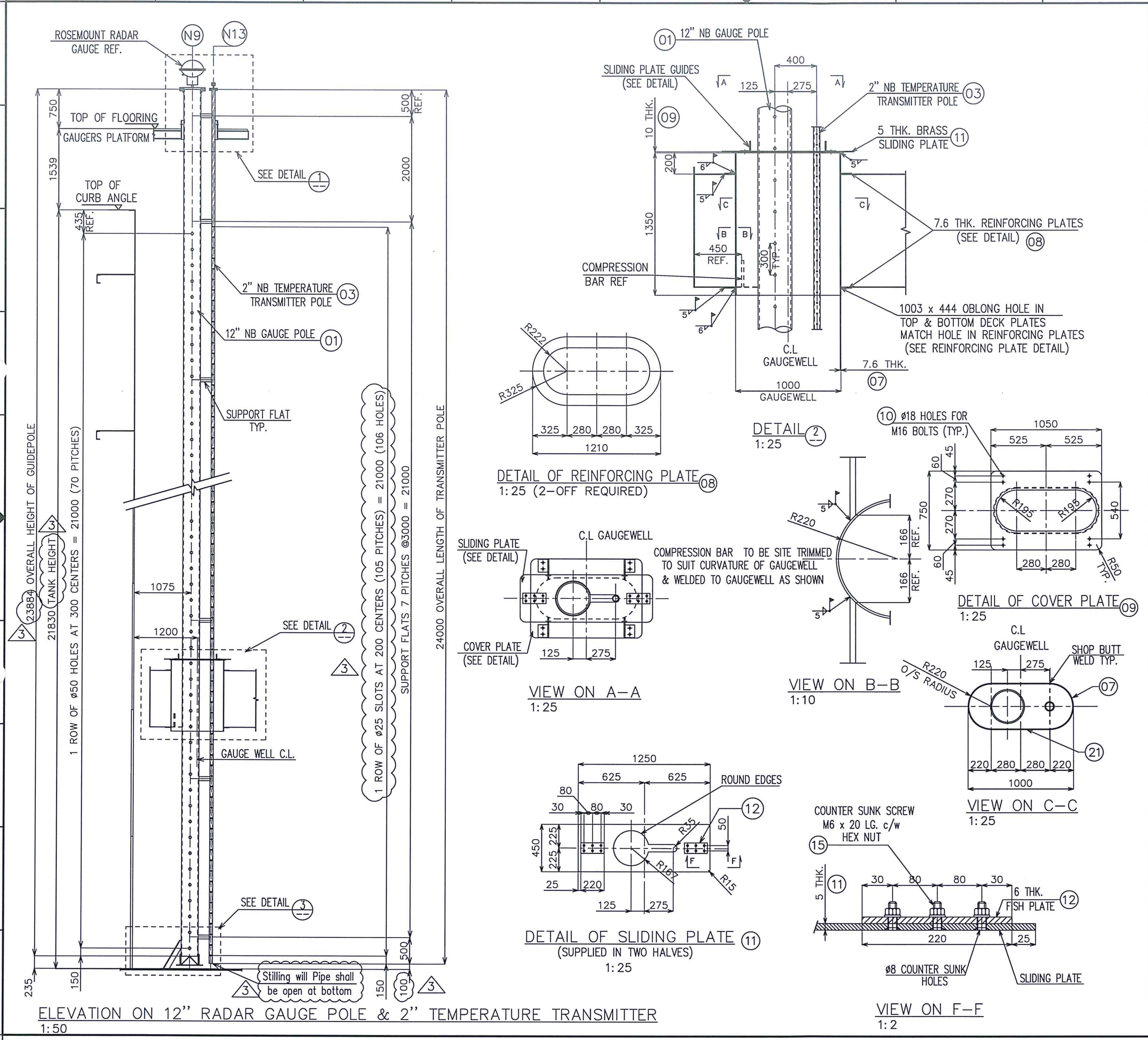
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Details of Name Plates

DIMS. IN mm / FORMAT: A2	DRAWING NO.: 1251-100-116-02-XX-D01-037	SHEET No. 1 OF 1	REVISION 2



GENERAL NOTES

1. RADAR POLE TO BE ERECTED TO WITHIN 15mm OF PLUMBED VERTICAL.
2. INSIDE BORE OF RADAR POLE & TEMPERATURE TRANSMITTER POLE MUST BE FREE OF ALL BURRS, PROJECTIONS & WELD SPATTER WITH PARTICULAR ATTENTION BEING PAID TO THE INSIDE OF THE ø25 & ø50 HOLES.
3. FOR TRUE ORIENTATION OF POLES SEE ROOF ORIENTATION DRAWINGS.
4. ITEMS 01 & 03 TO BE SITE BUTT WELDED AS REQUIRED.
5. SURFACE PREPARATION SHALL COMPLY WITH NOTE 34 IN MECHANICAL DATA SHEET NO. 1251-100-MDS-116-02-01.

PART LIST (FOR 1-OFF TANK)

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	1	ASTM A106 GR. B	PIPE : 12" NB SCH XS x 23855 LG. (SEE NOTE 4)
2	-	1	ASTM A105	SO FLANGE : 12" NB 150# RF
3	-	1	ASTM A106 GR. B	PIPE : 2" NB SCH XS x 23994 LG. (SEE NOTE 4)
4	-	1	ASTM A105	SO FLANGE : 2" NB 150# RF
5	9	-	ASTM A36	SUPPORT FLAT : 75 x 7.6 FB x 208
6	1	-	ASTM A283 GR. C	PAD : 1100 SQ. x 10 THK c/w 50 RAD CORNERS
7	-	2	ASTM A283 GR. C	BODY PLATE : 683 x 7.6 x 1350 LG. (ROLLED TO 220 O/RAD)
8	2	-	ASTM A283 GR. C	REINF.PLATES : 7.6 THK (AS DETAILED)
9	-	1	ASTM A283 GR. C	COVER PLATE : 750 x 10 x 1050 (SHAPED)
10	8	-	ASTM A307 GR. B SPUN GALVANISED	BOLTS : M16 x 40 LONG c/w 1-NUT
11	2	-	BRASS	SLIDING PLATE : 520 x 5 x 1100 (SHAPED) (SUPPLIED IN 2 HALVES - SEE DRAWING)
12	2	-	BRASS	FISH PLATE : 100 x 5 x 220
13	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
14	2	-	ASTM A36	CLEAT : 100 x 100 x 10 RSA x 190 LG.
15	12	-	BRASS	COUNTERSUNK SCREW : M6 x 20 LONG c/w 1- NUT
16	1	-	ASTM A283 GR. C	DATUM PLATE : Ø20 x 200 LG
17	4	-	ASTM A283 GR. C	SUPPORT : Ø20 x 200 LG
18	1	-	ASTM A283 GR. C	PLATE : 224 x 5 THK x 324
19	1	-	ASTM A283 GR. C	PLATE : 219 x 5 THK x 324
20	3	-	ASTM A36	SUPPORT : 100 x 100 x 10 RSA x 635 LG.
21	-	2	ASTM A283 GR. C	BODY PLATE : 560 x 7.6 x 1350 LG.

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	09/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	12/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

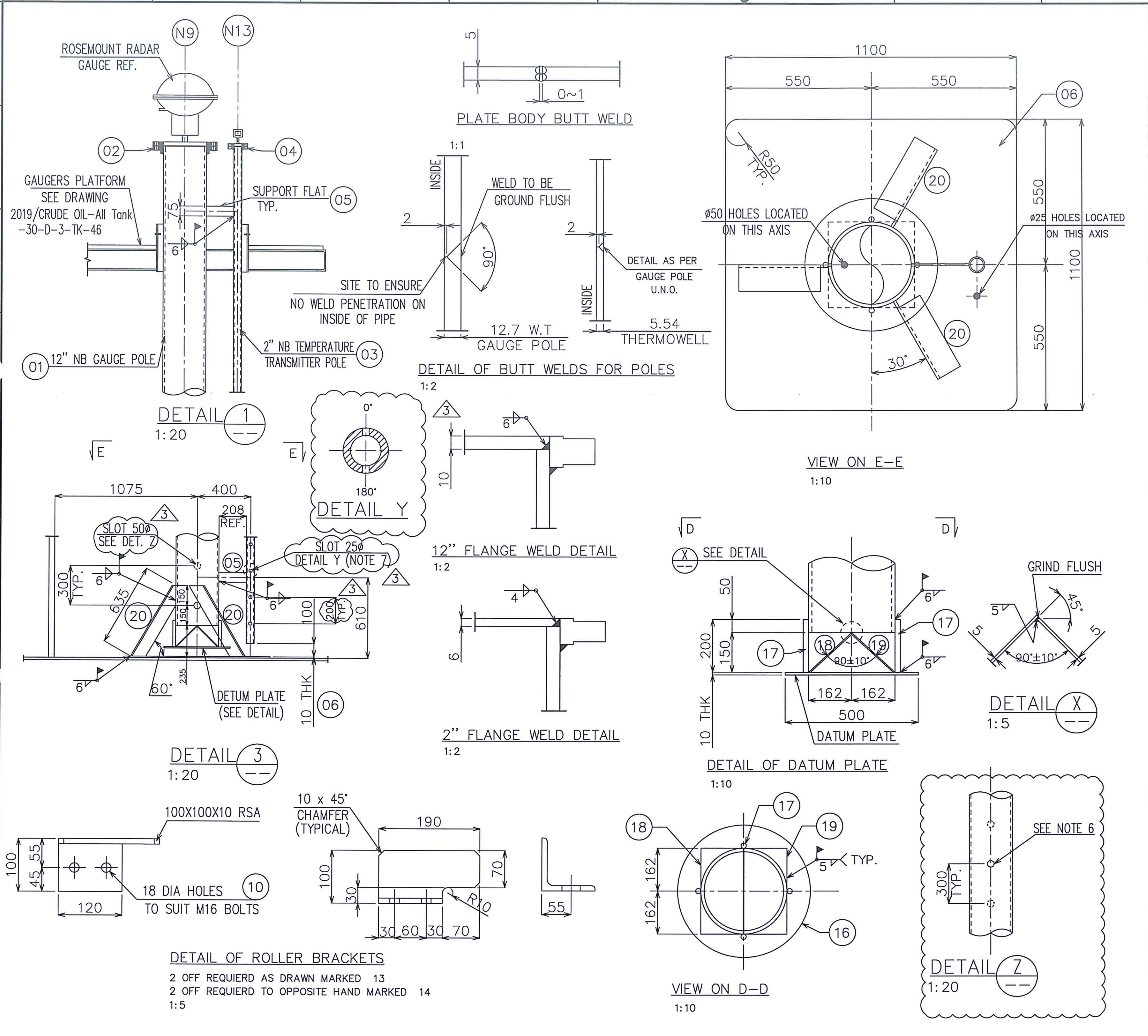
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Det. Of 12" Radar Gauge Pole Ref. N9 & 2" T.T. Ref. N13

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-038	1 OF 2	3



GENERAL NOTES

6. 12" RTG still pipe – Hole dia 50 mm. The holes are on both sides of the pipe and distance between two consecutive holes 300 mm.

7. 2" MST still pipe – Hole diameter 25 mm. The holes are on both side of the pipe at the same elevation. Distance between holes 200 mm.

LEGENDS

LG. – LONG
C.L. – CENTER LINE
E.L. – EARTHING LUG
CP.E.L. – CP EXTERNAL LUG
THK. – THICKNESS
S.M. – SETTLEMENT MARK
O.D. – OUTER DIAMETER
R. – RADIUS
T.O.B.A.P. – TOP OF BOTTOM ANNULAR PLATE
T.O.B.S.P. – TOP OF BOTTOM SKETCH PLATE
C.J.P. – COMPLETE JOINT PENETRATION
A.N.J. – ANNULAR PLATE WELD JOINT
B.C.D. – ANCHOR BOLT CIRCLE DIAMETER
B.P.W.J. – BOTTOM PLATE WELD JOINT
TYP. – TYPICAL
DET. – DETAIL
NOS. – NUMBERS
W.P. – WORKING POINT
C.O.D. – CLEAN OUT DOOR
I.D. – INNER DIAMETER
EL. – ELEVATION

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	09/06/2020	ISSUED FOR CONSTRUCTION	A.SABRY	M.H.	H.A.
2	27/04/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	12/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	19/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

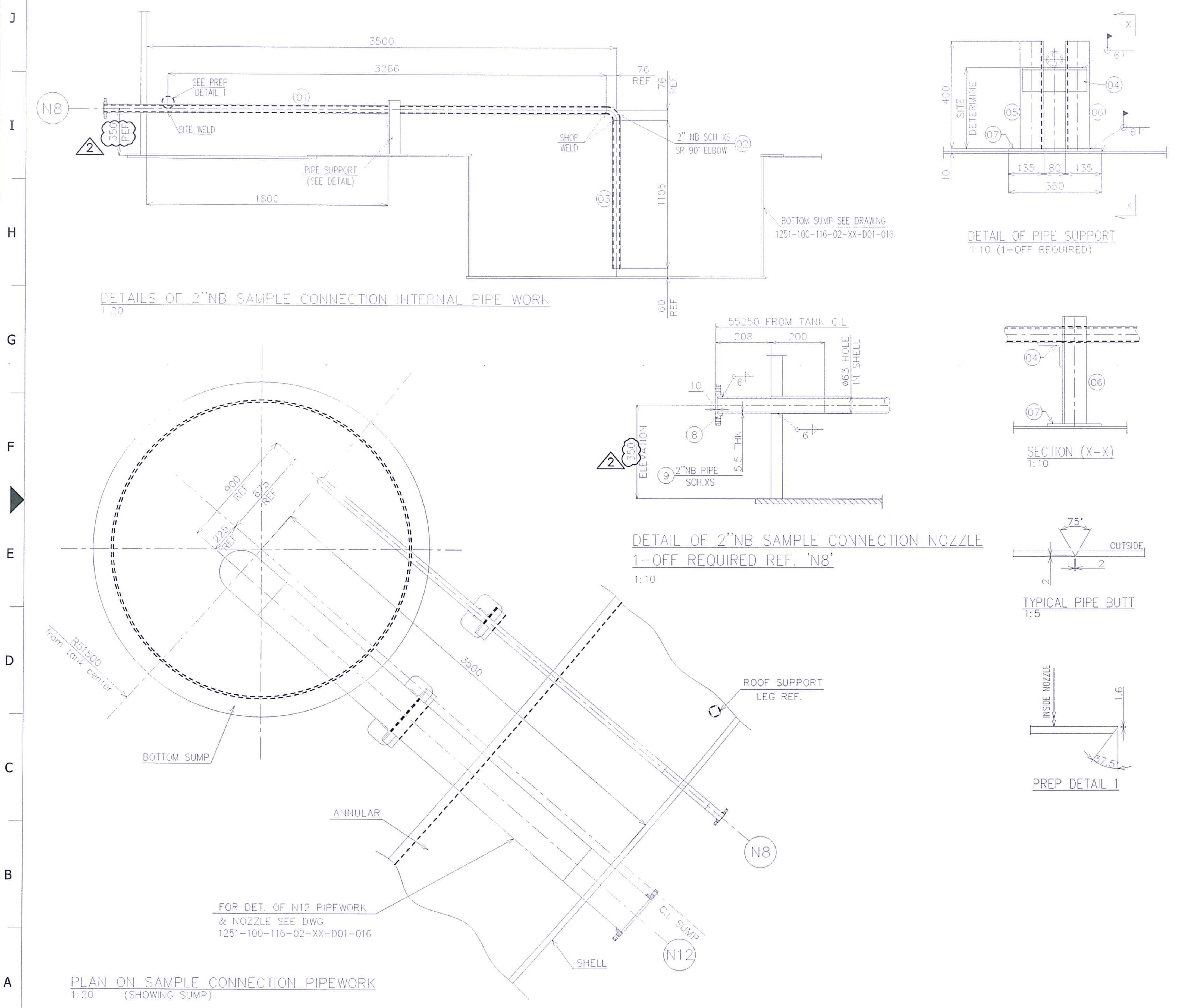
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Det. Of 12" Radar Gauge Pole Ref. N9 & 2" T.T. Ref. N13

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D01-038	2 OF 2	3



GENERAL NOTES

1. FOR LOCATION OF SHELL FITTINGS SEE SHELL ORIENTATION 1251-100-116-02-XX-B01-002
2. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001
3. ALL OPENING CONNECTIONS REQUIRING REINFORCEMENT IN A SHELL PLATE OR THICKENED INSERT PLATE MORE THAN 13 MM THICK SHALL BE PREFABRICATED INTO THE SHELL PLATE OR THICKENED INSERT PLATE, AND THE PREFABRICATED ASSEMBLY SHALL BE THERMALLY STRESS RELIEVED WITHIN A TEMPERATURE RANGE OF 600 °C TO 650 °C FOR 1 HOUR PER 25 MM OF THICKNESS PRIOR TO INSTALLATION AS PER PARA. 5.7.4.3 IN API 650.

PART LIST (FOR 1-OFF TANK)

ITEM NO.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	1	ASTM A106 GR. B	PIPE BODY : 2"NB SCH XS x 3266 LG
2	-	1	ASTM A106 GR. B	90° ELBOW : 2"NB SCH XS LR
3	-	1	ASTM A106 GR. B	PIPE : 2"NB SCH XS x 1105 LG
4	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 240 LG
5	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 400 LG
6	1	-	ASTM A36	SUPPORT : 90 x 90 x 9 RSA x 400 LG
7	1	-	ASTM A283 GR. C	BASE PLATE : 200 x 10 x 350 c/w R20 CORNERS
8	-	1	ASTM A105	SO FLANGE : 2"NB 150# RF
9	-	1	ASTM A106 GR. B	PIPE BODY : 2"NB SCH XS x 398 LG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	25/09/2019	ISSUED FOR APPROVAL	H.K.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

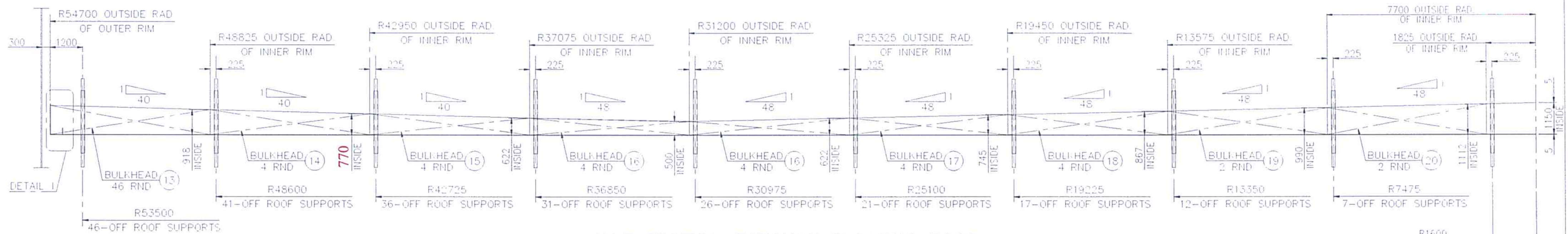
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL-ALL TANK

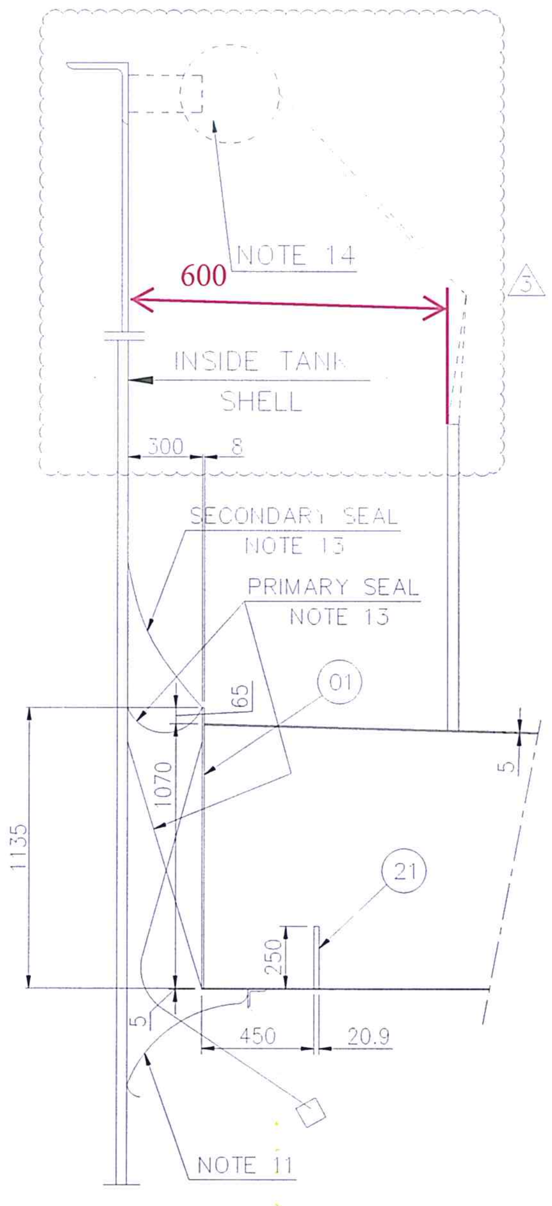
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

DET. OF 2" SAMPLE CONN. INT. PIPEWORK REF. N8

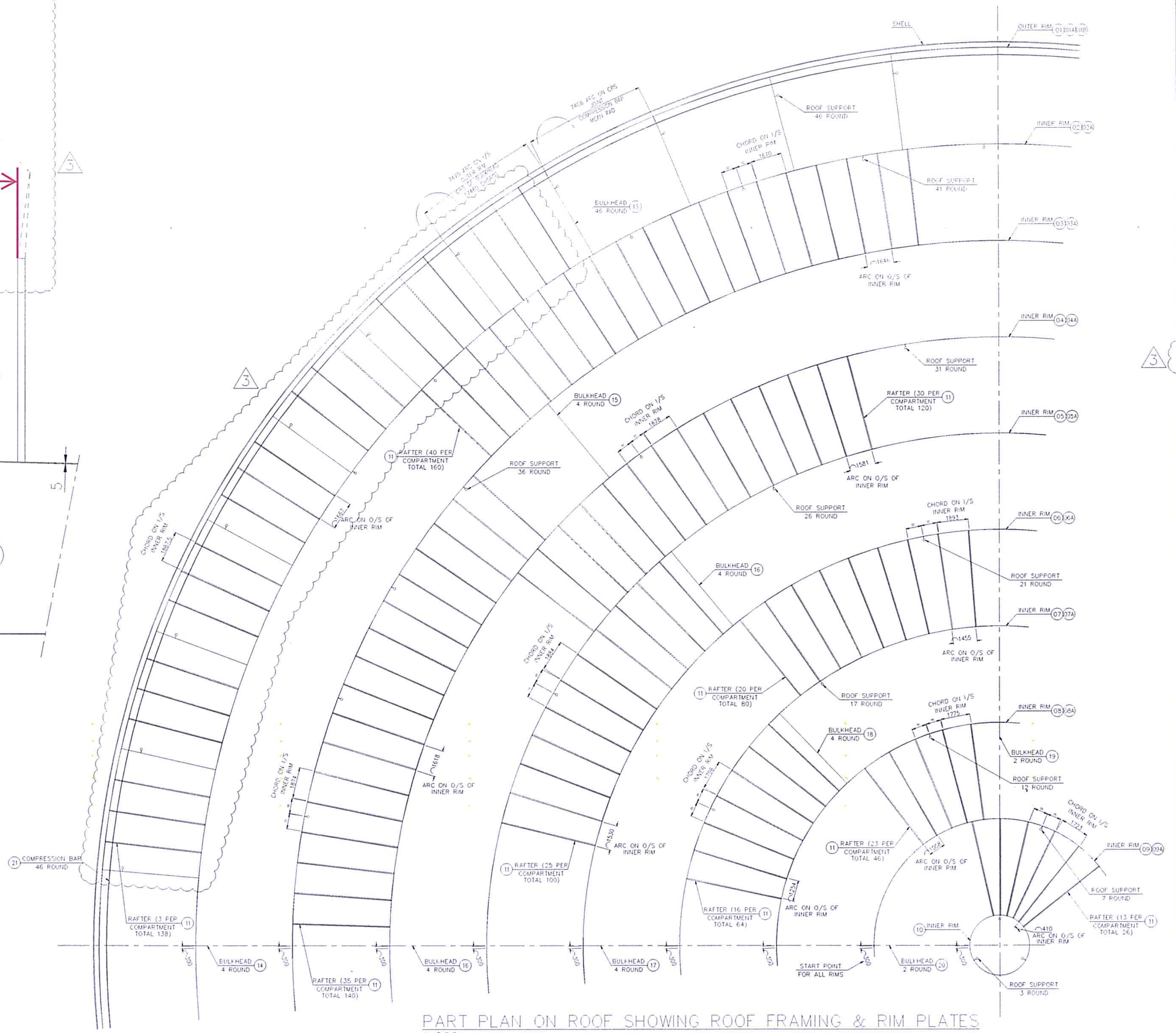
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT. A2	1251-100-116-02-XX-D01-039	1 OF 1	2



HALF SECTION THROUGH FLOATING ROOF
1:100



DETAIL 1
1:20



PART PLAN ON ROOF SHOWING ROOF FRAMING & RIM PLATES
1:200

NOTES

1. FOR DETAILS OF FLOATING ROOF SUPPORT LEGS DETAILS SEE DRAWING NO. 1251-100-116-02-XX-D99-003
2. WELD TOP DECK TO RAFTERS WITH 5mm FILLET WELD DOWN HAND WHERE EDGE OF PLATE CROSSES RAFTER
3. WELD ALL BOTTOM DECK PLATES WITH 5mm FILLET WELD EVERY 50mm IN 250mm ON UNDERSIDE WITHIN 300mm OF RIMS, BULKHEADS AND OTHER RIGID MEMBERS
4. FOR DETAILS OF TOP AND BOTTOM DECK PLATES SEE DRAWING NO. 1251-100-116-02-XX-D99-004 & 1251-100-116-02-XX-D99-005
5. PLATES SUPPLIED FOR OUTER RIM, ROLLED TO 54692 I/RAD. SITE TRIM CLOSING LENGTH TO SUIT
6. 46-OFF PLATES SUPPLIED FOR COMPRESSION RING, ROLLED TO 54240 MEAN RAD
7. FOR TRUE LOCATION OF RAFTERS, BULKHEADS AND ROOF SUPPORTS SEE ROOF ORIENTATION DRAWING NO 1251-100-116-02-XX-B01-003.
8. PLATES FOR INNER RIM - ITEMS 10 & 10A ONLY, ROLLED TO 1820 I/RAD.
9. DESIGN CODE - API-650 11TH EDITION ADDENDUM 3
10. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO 1251-100-116-02-XX-D99-002 & 1251-100-116-02-XX-D99-003
11. FOR SHUNT DETAILS REFER TO VENDOR PRINT (FLOATING ROOF SEAL AND DRAIN DETAILS DWG. NO 1251-100-116-02-XX-D99-013)
12. FLOAT ROOF TANKS SHALL BE COMPLETE WITH MIN. OF 12 RETRACTABLE EARTHING SYSTEM (SUPPLIED BY OTHERS) DISTRIBUTED EVENLY ALONG TANK UPPER CIRCUMFERENCE
13. THE FLOATING ROOF SEALS AS FOLLOW
    - PRIMARY SEAL. MECHANICAL SEAL OF PANTOGRAPH TYPE.
    - SECONDARY SEAL. WIPER RUBBER SEAL TYPE

    FOR FLOATING ROOF SEALS DETAIL REFER TO VENDOR PRINT (FLOATING ROOF SEAL AND DRAIN DETAILS DWG. NO. 1251-100-116-02-XX-D99-013).
14. FOR RETRACTABLE GROUNDING ASSEMBLY REFER TO DOC NO. 01251-100-S26- M01- 0001

BILL OF MATERIAL FOR 1 TANK

ITEM	DESCRIPTION	SIZE (mm)			QTY.	MATERIAL	WT.(Kg)
		W	L	THK.			
1	OUTER RIM	1135	9261	8	36	A283 Gr. C	23764
1A	OUTER RIM	1135	4629	8	1	A283 Gr. C	330
1B	OUTER RIM	1135	5787	8	1	A283 Gr. C	412
2	INNER RIM	918	12150	5	25	A283 Gr. C	10945
2A	INNER RIM	918	3011	5	1	A283 Gr. C	108
3	INNER RIM	770	12150	5	22	A283 Gr. C	8078
3A	INNER RIM	770	2547	5	1	A283 Gr. C	77
4	INNER RIM	622	12150	5	19	A283 Gr. C	5636
4A	INNER RIM	622	2083	5	1	A283 Gr. C	51
5	INNER RIM	500	12150	5	16	A283 Gr. C	3815
5A	INNER RIM	500	1620	5	1	A283 Gr. C	32
6	INNER RIM	622	12150	5	12.5	A283 Gr. C	3708
6A	INNER RIM	622	7231	5	1	A283 Gr. C	177
7	INNER RIM	745	12150	5	9.5	A283 Gr. C	3375
7A	INNER RIM	745	6767	5	1	A283 Gr. C	198
8	INNER RIM	867	12150	5	6.5	A283 Gr. C	2687
8A	INNER RIM	867	6304	5	1	A283 Gr. C	215
9	INNER RIM	990	12150	5	3	A283 Gr. C	1416
9A	INNER RIM	990	11915	5	1	A283 Gr. C	463
10	INNER RIM	1112	12150	5	1	A283 Gr. C	530
11	RAFTER	UNP 160, L = 5770			874	ST. 44	94808
12	GUSSET	100	300	5	1748	A283 Gr. C	2058
13	BULKHEAD	1065 > 918	5867	5	46	A283 Gr. C	10503
14	BULKHEAD	918 > 770	5870	5	4	A283 Gr. C	778
15	BULKHEAD	770 > 622	5870	5	4	A283 Gr. C	641
16	BULKHEAD	622 > 500	5870	5	8	A283 Gr. C	1034
17	BULKHEAD	745 > 622	5870	5	4	A283 Gr. C	630
18	BULKHEAD	867 > 745	5870	5	4	A283 Gr. C	743
19	BULKHEAD	990 > 867	5870	5	2	A283 Gr. C	428
20	BULKHEAD	1112 > 990	5870	5	2	A283 Gr. C	484
21	COMPRESSION BAR	250	7409	20.9	46	A537 CL 1	13979
						TOTAL WEIGHT IN K.G. =	192104

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO-A.R.E

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

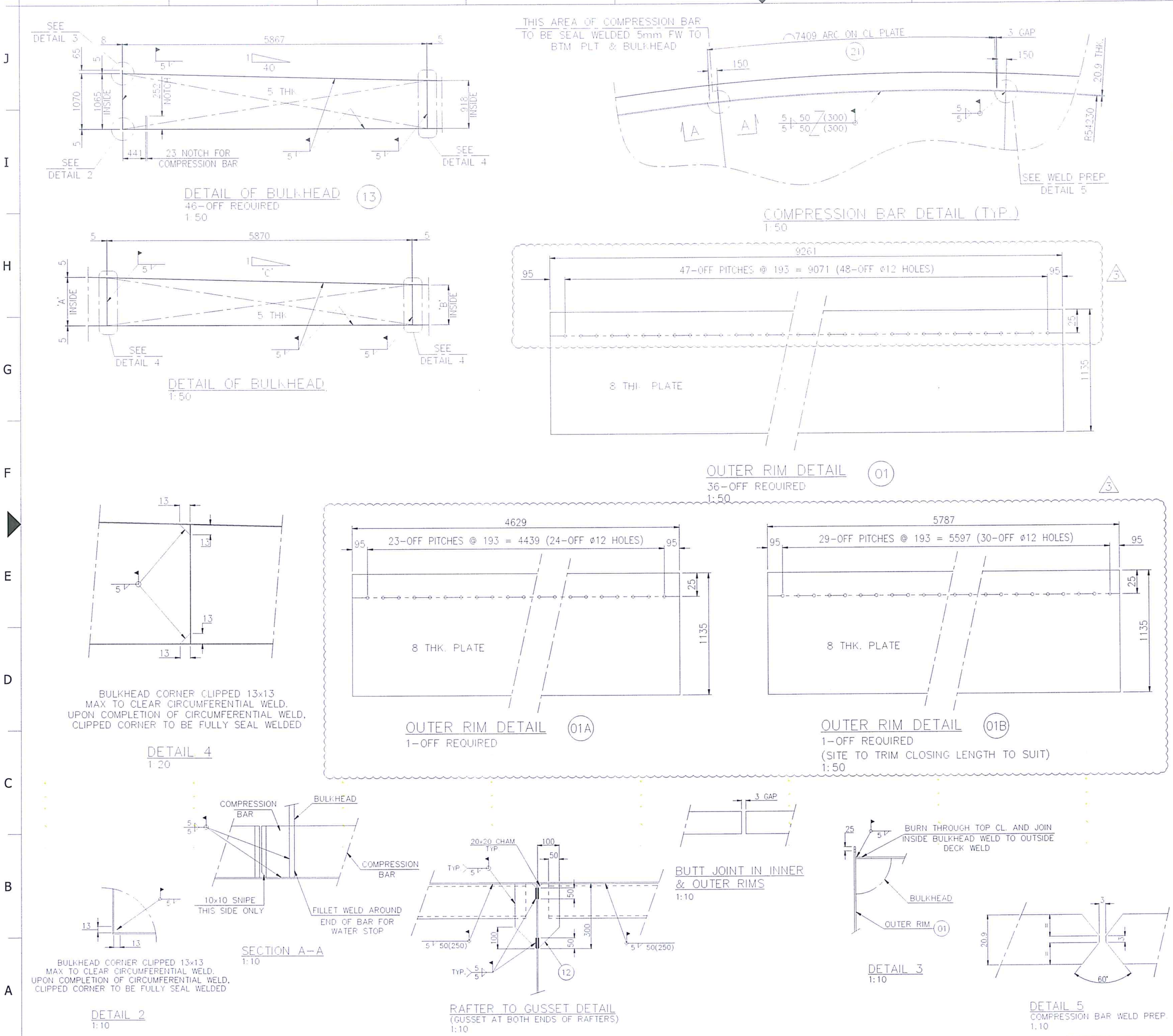
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Double Deck Floating Roof Layout

DIMS: IN mm | FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D99-001

SHEET No 1 OF 1 | REVISION 3



NOTES.

1. THE FLOATING ROOF SEALS AS FOLLOW:
   - PRIMARY SEAL: MECHANICAL SEAL OF PANTOGRAPH TYPE
   - SECONDARY SEAL: WIPER RUBBER SEAL TYPE.

FOR FLOATING ROOF SEALS DETAIL REFER TO VENDOR PRINT (FLOATING ROOF SEAL AND DRAIN DETAILS DWG. NO. 1251-100-116-02-XX-D99-013).

BULKHEAD DIMENSIONS

ITEM NO.	QTY.	DIM. A	DIM. B	SLOPE 'C'
14	4	918	770	1:40
15	4	770	622	1:40
16	8	622	500	1:48
17	4	745	622	1:48
18	4	867	745	1:48
19	2	990	867	1:48
20	2	1112	990	1:48

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 1251-100-116-02-XX-D99-001.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	05/03/2020	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT: CRUDE OIL TANK FARM

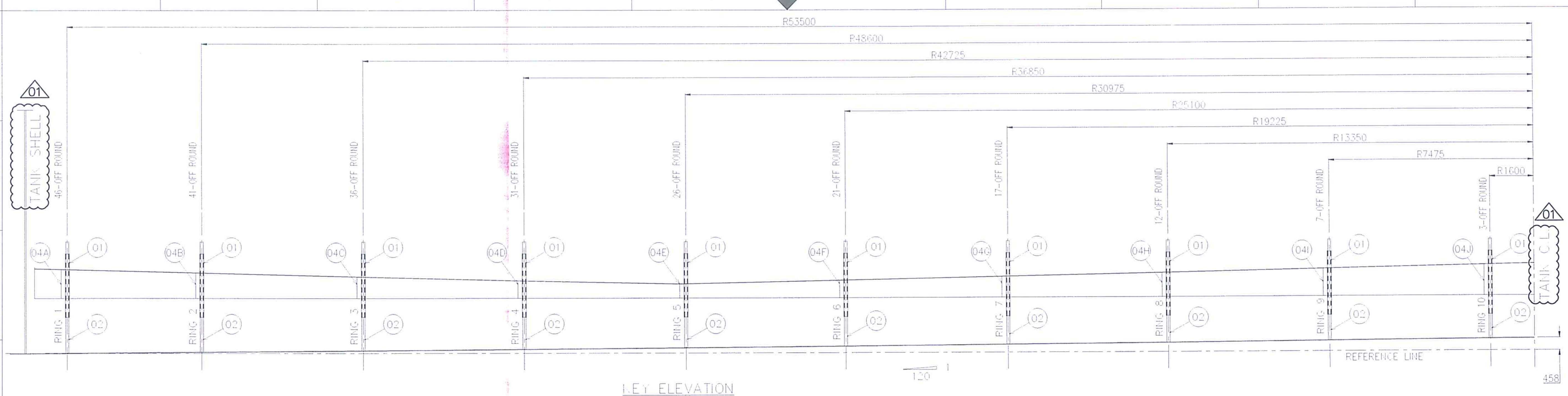
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

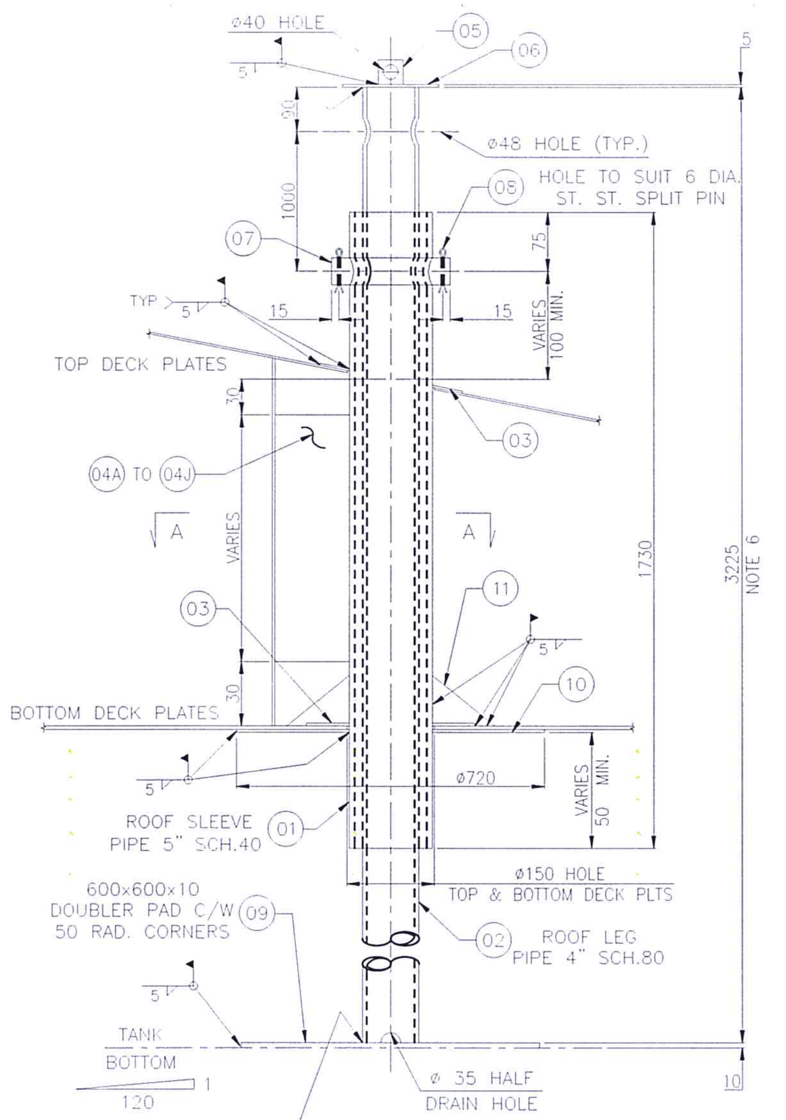
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Double Deck Floating Roof Details

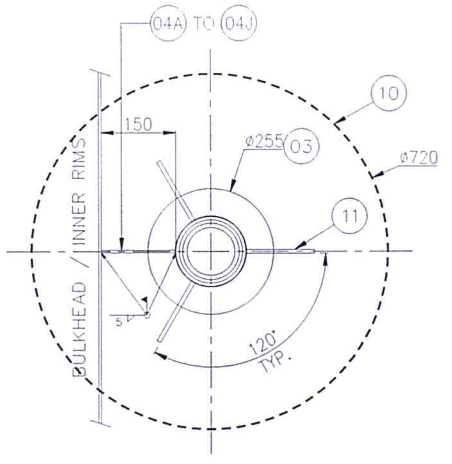
DIMS. IN mm — FORMAT A2 — DRAWING NO.: 1251-100-116-02-XX-D99-002 — SHEET No. 1 OF 1 — REVISION 3



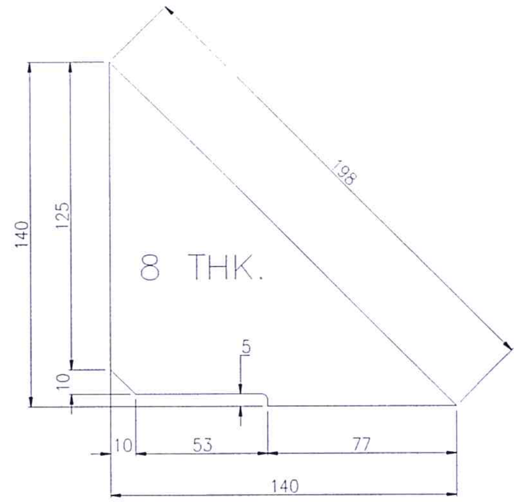
KEY ELEVATION
1:100



DETAILS OF ROOF SUPPORTS AT RINGS 1 TO 10
240-OFF REQUIRED
1:75



SECTION A
1:10



DETAILS OF GUSSET PLATES
720-OFF REQUIRED
1:2

NOTES
1. OVERHEAD WELD 50 LONG AT 250 CENTERS ARE REQUIRED ON BOTTOM DECK LAP JOINTS WITHIN 300mm RADIUS OF ROOF SUPPORTS.
2. HIGH POSITION OF ROOF = 2000mm.
   LOW POSITION OF ROOF = 1000mm.
3. FOR ACTUAL LOCATION OF ROOF SUPPORTS SEE ORIENTATION DRAWING NO. 1251-100-116-02-XX-B01-003.
4. ROOF SUPPORT DIMENSIONS ARE BASED ON ROOF BEING ERECTED ON TEMPORARY FARMING.
5. ERECTION-HOLES TO BE BURNED IN TOP & BTM DECKS, LOCATE BASE PLATES ON TANK BOTTOM BELOW HOLES. WITH REINFORCING PLATES IN POSITION, DROP SUPPORT & SLEEVE THROUGH HOLES, CENTER BASE PLATE THEN COMPLETE ALL WELDING (WITH LEG PINNED THROUGH SLEEVE).
6. LEG SUPPORTS SHALL BE PROVIDED WITH EXTRA 100mm LENGTH TO ACCOUNT FOR VARIATION OF TANK BOTTOM CONTOUR AFTER THE HYDRO-TEST. EXTRA LENGTH SHALL BE CUT ACCORDING TO RELEVANT PROCEDURE AFTER THE HYDRO-TEST.

BILL OF MATERIAL FOR 1 TANK

ITEM	DESCRIPTION	SIZE (mm)			QTY.	MATERIAL	WT.(Kg)
1	ROOF SLEEVE	5" NB SCH.40 x 1730 LG			240	A106 Gr.B	37.66
2	ROOF LEG	4" NB SCH.80 x 3225 LG			240	A106 Gr.B	71.98
3	REINFORCED PLATE	255 O.D.	144 I.D.	5	480	A283 Gr. C	655.34
04A	SHEAR PLATE	150	5	975	46	A283 Gr. C	264.05
04B	SHEAR PLATE	150	5	850	41	A283 Gr. C	205.18
04C	SHEAR PLATE	150	5	700	36	A283 Gr. C	148.37
04D	SHEAR PLATE	150	5	560	31	A283 Gr. C	102.21
04E	SHEAR PLATE	150	5	440	26	A283 Gr. C	67.35
04F	SHEAR PLATE	150	5	560	21	A283 Gr. C	69.24
04G	SHEAR PLATE	150	5	685	17	A283 Gr. C	68.56
04H	SHEAR PLATE	150	5	810	12	A283 Gr. C	57.23
04I	SHEAR PLATE	150	5	930	7	A283 Gr. C	38.33
04J	SHEAR PLATE	150	5	1050	3	A283 Gr. C	18.55
5	BLANK NUT	80 SQ x 10 THK. c/w 40 DIA. HOLE			240	A283 Gr. C	120.58
6	CAP PLATE	160 DIA. X 5 THK.			240	A283 Gr. C	189.40
7	PINS	45 DIA. X 210 LG			240	ST. 44	629.24
8	SPLIT PINS	6 DIA. X 65 LG			480	STAINLESS STEEL	6.92
9	DOUBLER PLATE	600	600	10	240	A283 Gr. C	6782.40
10	REINFORCED PLATE	720 O.D.	144 I.D.	5	240	A283 Gr. C	3681.94
11	GUSSET PLATE	140	140	8	720	A283 Gr. C	17673.32
						TOTAL WEIGHT IN K.G. =	30887.85

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	05/09/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E.

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

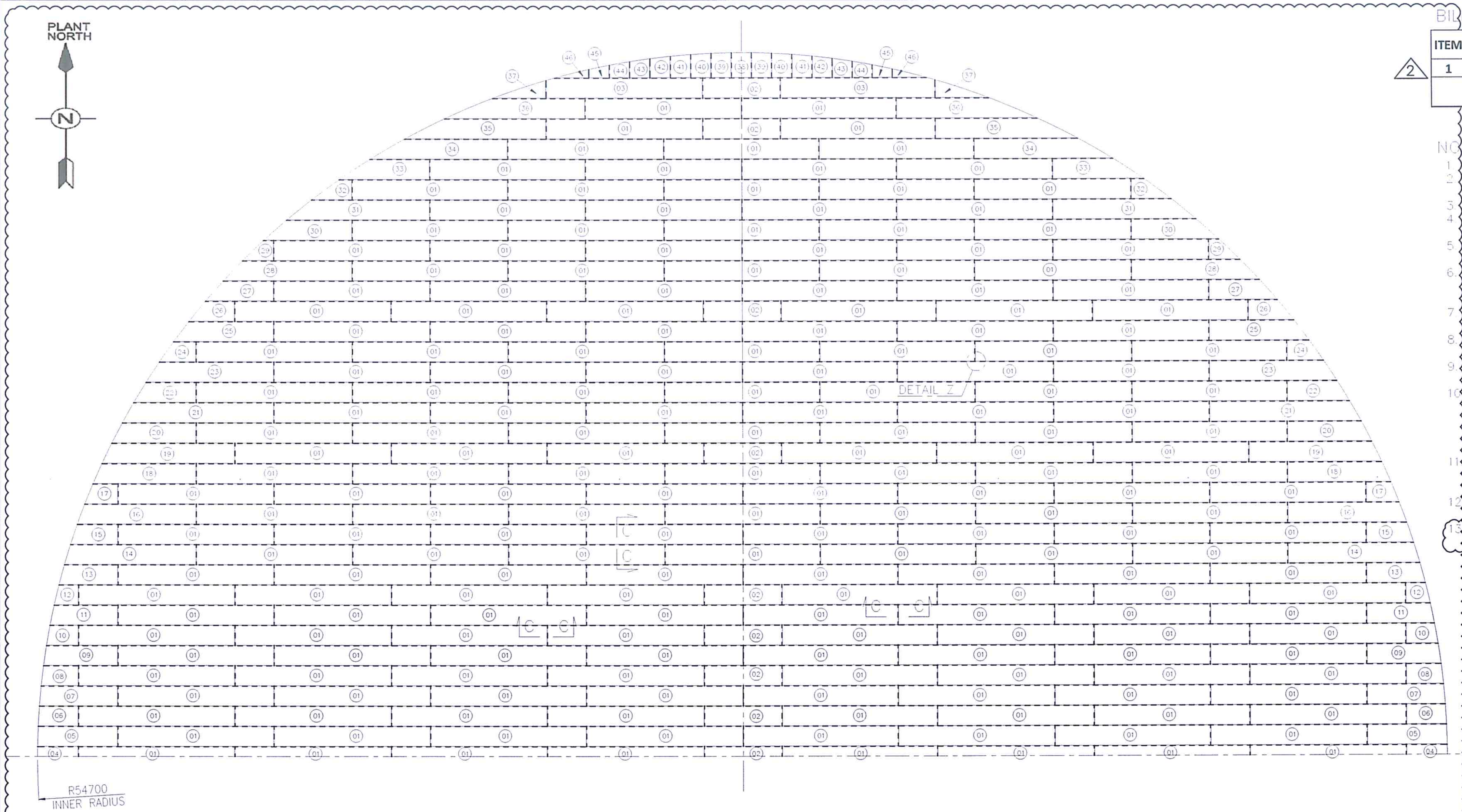
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Floating Roof Support Legs Details

DIMS. IN mm
FORMAT: A2

DRAWING NO.: 1251-100-116-02-XX-D99-003

SHEET No. 1 OF 1
REVISION 01



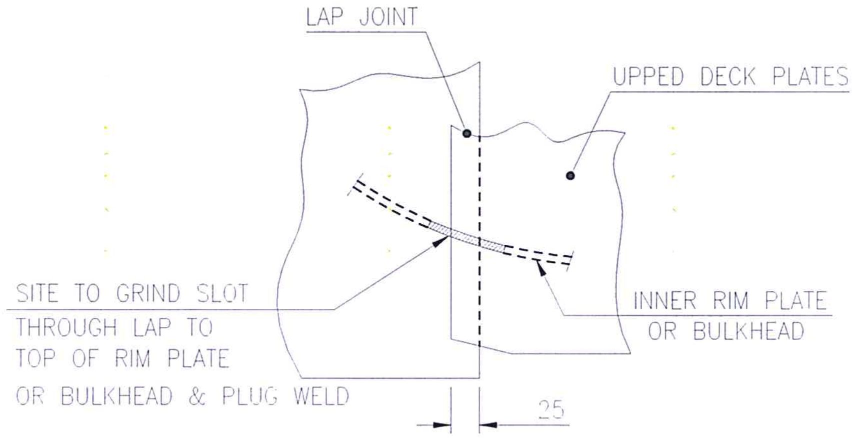
HALF PLAN ON TOP & BOTTOM PLATES
1:250

BILL OF MATERIAL FOR 1 TANK

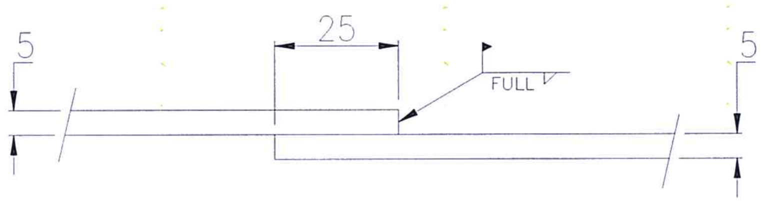
ITEM	DESCRIPTION	SIZE (mm)			QTY.	MATERIAL	WT.(Kg)
1	ROOF PLATE	12150	1600	5	996	A283 Gr. C	759967.92
TOTAL WEIGHT IN (Kg) =							759967.92

NOTES

1. ALL DIMENSIONS ARE IN mm.
2. FOR LOCATION OF DECK PLATES SEE TANK ORIENTATION DRAWING NO 1251-100-116-02-XX-B01-002.
3. DESIGN CODE : API 650 11TH EDITION ADDENDUM 3
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO 1251-100-116-02-XX-D99-005
5. FOR FLOATING ROOF SUPPORTS DETAILS REFER TO DWG NO 1251-100-116-02-XX-D99-003.
6. FOR RAFTERS, BULKHEADS & RIM JOINTS DETAILS REFER TO DWG NO 1251-100-116-02-XX-D99-001 & 1251-100-116-02-XX-D99-002.
7. ALL FILLET WELDS SHALL BE CONTINUOUS AND COMPLETED IN MIN 2 LAYERS
8. ALL WELD SPATTERS AND LARGE WELD BEADS SHOULD BE REMOVED BY GRINDING.
9. THREE PLATE LAP JOINTS SHALL BE SUITABLY JOGGLED TO A LENGTH OF 150MM.
10. ACC TO API650 C.3.3.3 WELD ALL BOTTOM DECK PLATES WITH 5MM FILLET WELD EVERY 50MM IN 250MM ON UNDERSIDE WITHIN 300MM OF RIMS, BULKHEADS AND OTHER RIGID MEMBERS. THE REMAINING LENGTHS SHALL BE STITCH WELDED FOR 50MM LENGTHS @ 400MM C/C.
11. FOR CUTOUT OF LOWER DECK PLATES FOR MIXER NOZZLES REFER TO MIXER CUT-OUTS DETAILS DRAWING NO 1251-100-116-02-XX-D01-025.
12. TOTAL PLATING WELD LENGTH INCLUDING 3-PLATE LABS = 13560 METERS
13. FOR SURFACE PREPARATION REFER TO G.A. DWG. NO. 01251-100-116-02-XX-B01-001



DETAIL Z
DETAILS OF PLUG WELD
(THIS APPLIES TO TOP DECK ONLY)
1:20



SECTION C–C
TYPICAL LAP JOINT DETAIL
1:1

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	18/11/2019	ISSUED FOR APPROVAL	M.D.	M.H.	H.A.

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

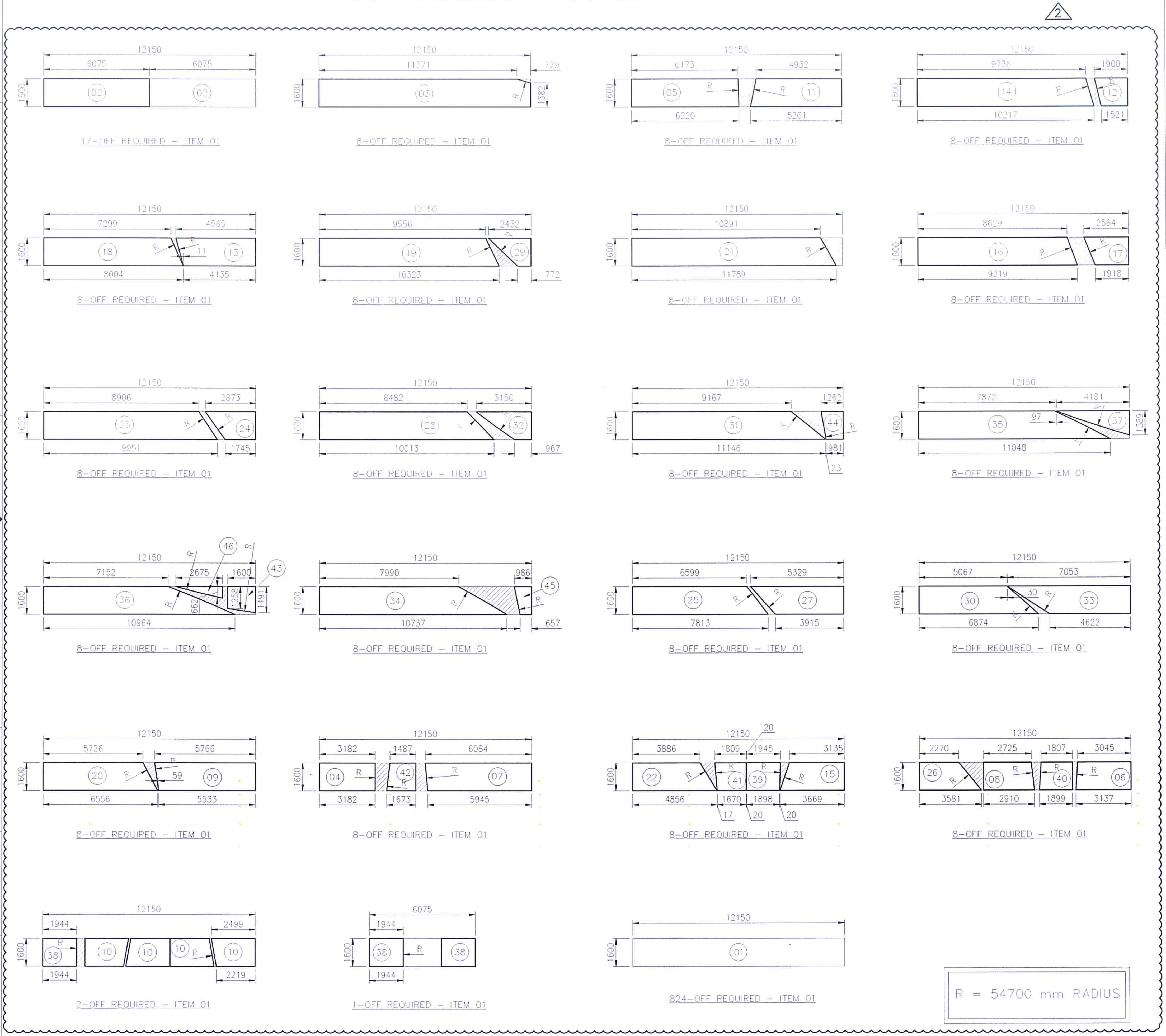
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

PROJECT: CRUDE OIL TANK FARM
AT: RAS SHUKIER, RAS BADRAN MOD 1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT: EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Top & Bottom Deck Plates Arrangement

DIMS. IN mm | FORMAT: A2 | DRAWING NO.: 1251-100-116-02-XX-D99-004 | SHEET No. 1 OF 1 | REVISION 2



NOTES

1. ALL DIMENSIONS ARE IN mm
2. QUANTITIES SHOWN ARE FOR 1 TANK
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO 1251-100-116-02-XX-D99-004

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
2	05/12/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	18/11/2019	ISSUED FOR APPROVAL	MAGDY	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E.

PROJECT: CRUDE OIL TANK FARM

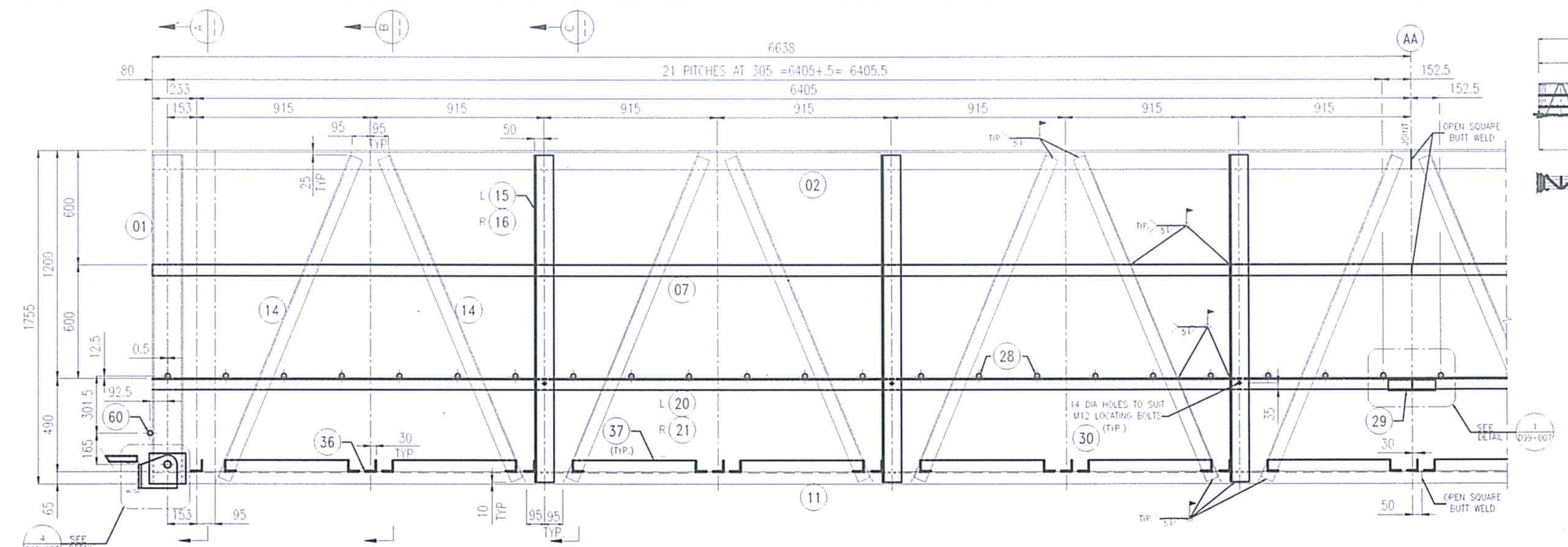
AT: RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB

CLIENT: EGPC

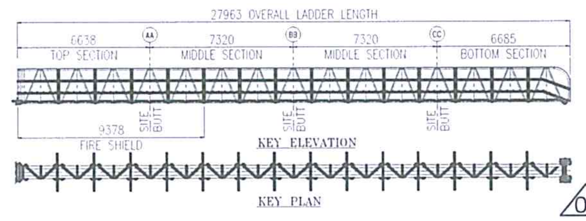
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Top & Bottom Deck Plates Cutting Details

DIMS. IN mm	DRAWING NO.:	SHEET No	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-005	1 OF 1	2

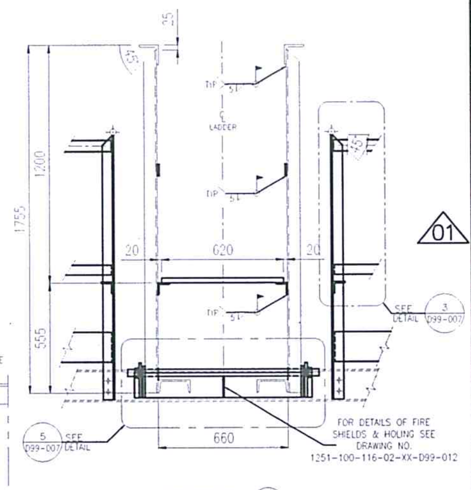


ELEVATION ON LADDER - TOP SECTION
1-OFF REQUIRED
SCALE 1:25

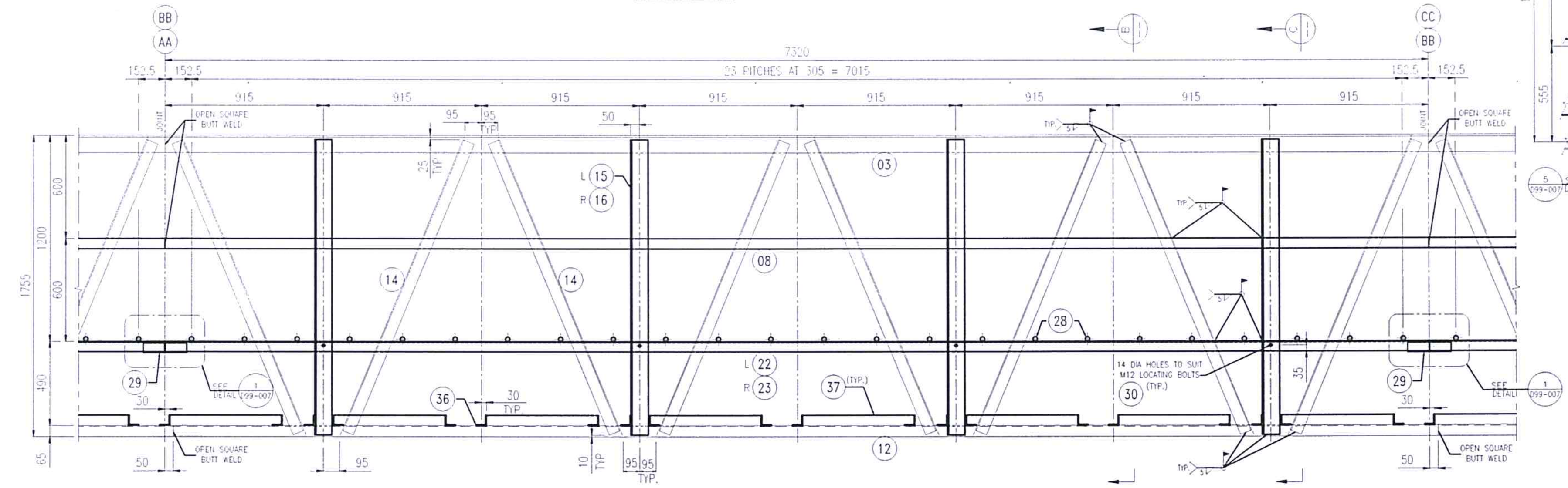


KEY ELEVATION

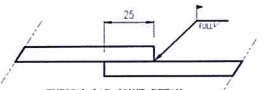
KEY PLAN



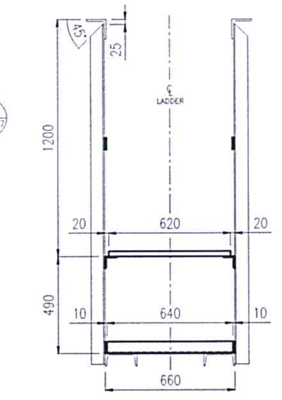
SECTION (A)
SCALE 1:25



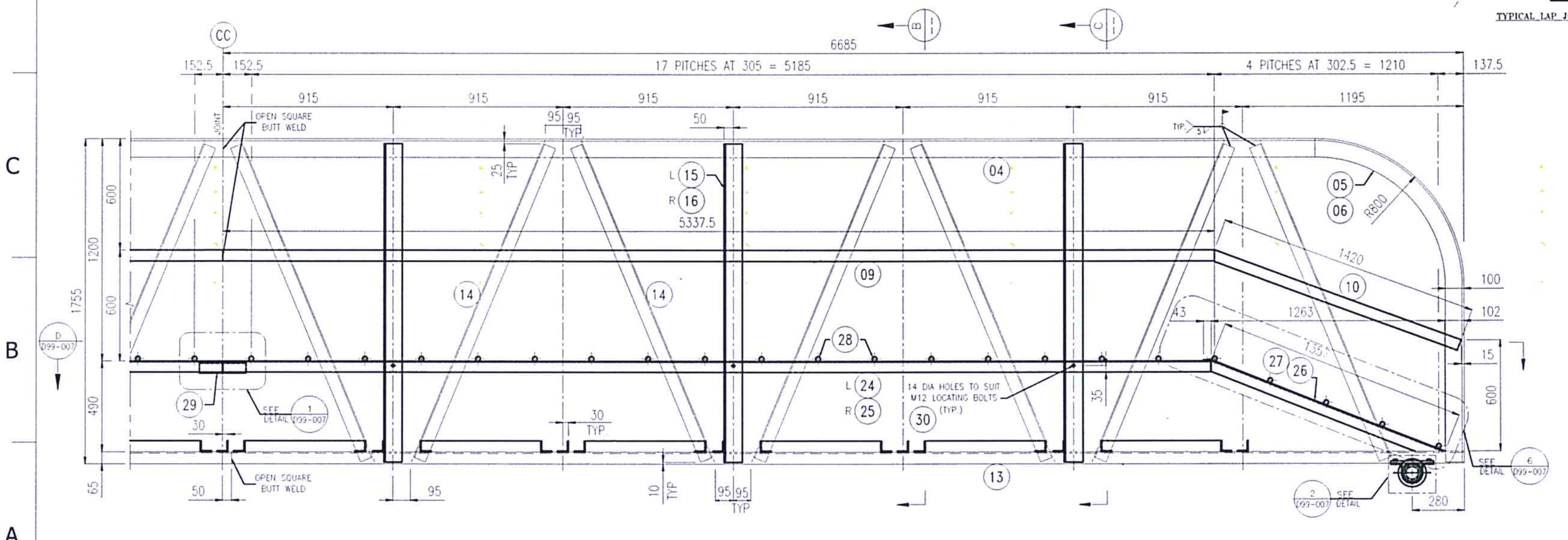
ELEVATION ON LADDER - MIDDLE SECTION
2-OFF REQUIRED
SCALE 1:25



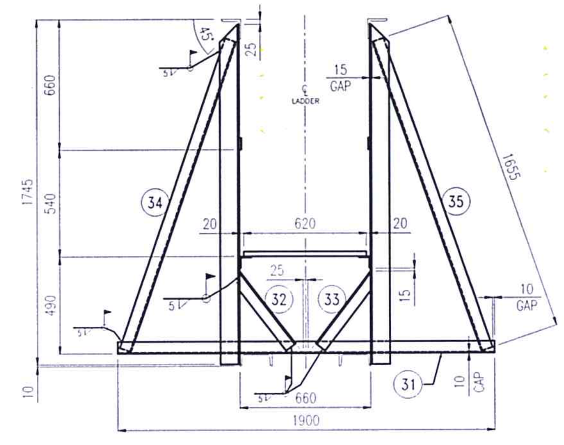
TYPICAL LAP JOINT DETAIL



SECTION (B)
SCALE 1:25



ELEVATION ON LADDER - BOTTOM SECTION
1-OFF REQUIRED
SCALE 1:25



SECTION (C)
SCALE 1:25

TOLERANCE NOTE

THE FOLLOWING TOLERANCES MUST BE ADHERED TO:-
±1mm BETWEEN ANY TWO ADJACENT RUNGS
±2mm BETWEEN FIRST AND LAST RUNG OF TOP/MIDDLE/BOTTOM SECTION
±5mm BETWEEN FIRST AND LAST TREAD ON OVERALL COMPLETED LADDER

GENERAL NOTES.-

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D99-007, 1251-100-116-02-XX-D99-008, 1251-100-116-02-XX-D99-009, 1251-100-116-02-XX-D99-010, 1251-100-116-02-XX-D99-011, & 1251-100-116-02-XX-D99-012
2. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG NO 1251-100-116-02-XX-B01-001
3. BOLTING / NUTS SHALL BE HDG.

01

BILL OF MATERIAL

ITEM NO.	REQ	DESCRIPTION AND SIZE OF MATERIAL	L	MATERIAL SPECIFICATION	WEIGHT (KG)
1	2	HINGE POST : UPN 160	1730	ST. 44	65.05
2	2	TOP RAIL : 100 X 100 X 10 RSA	6638	ST. 44	200.47
3	4	TOP RAIL : 100 X 100 X 10 RSA	7320	ST. 44	442.13
4	2	TOP RAIL : 100 X 100 X 10 RSA	5885	ST. 44	177.73
5	1	CURVED RAIL : 100 X 100 X 10 RSA	2205	ST. 44	33.30
6	1	CURVED RAIL : 100 X 100 X 10 RSA	2205	ST. 44	33.30
7	2	MID RAIL : 60 X 10 FLAT	6638	ST. 44	31.26
8	4	MID RAIL : 60 X 10 FLAT	7320	ST. 44	34.48
9	2	MID RAIL : 60 X 10 FLAT	5337.5	ST. 44	25.14
10	2	MID RAIL : 60 X 10 FLAT	1420	ST. 44	6.69
11	2	BOTTOM STRUT : UPN 160	6688	ST. 44	251.47
12	4	BOTTOM STRUT : UPN 160	7320	ST. 44	550.46
13	2	BOTTOM STRUT : UPN 160	6635	ST. 44	249.48
14	60	DIAGONAL BRACE : 70 X 70 X 7 RSA	1832	ST. 44	811.21
15	14	VERTICAL POST : 100 X 100 X 8 RSA	1720	ST. 44	293.78
16	14	VERTICAL POST : 100 X 100 X 8 RSA	1720	ST. 44	293.78
17	2	CHEEK PLATE : 190 X 160 X 12		ASTM A283 GR C	5.73
18	2	AXLE PLATE : 230 X 58 X 12		ASTM A283 GR C	2.51
19	4	NUTS : TO SUIT M16 BOLT		ASTM A194 GR 7	....
20	1	RUNG SUPPORT : 60 X 60 X 6 RSA	6636.5	ST. 44	35.97
21	1	RUNG SUPPORT : 60 X 60 X 6 RSA	6636.5	ST. 44	35.97
22	2	RUNG SUPPORT : 60 X 60 X 6 RSA	7317	ST. 44	79.32
23	2	RUNG SUPPORT : 60 X 60 X 6 RSA	7317	ST. 44	79.32
24	1	RUNG SUPPORT : 60 X 60 X 6 RSA	5315	ST. 44	28.81
25	1	RUNG SUPPORT : 60 X 60 X 6 RSA	5315	ST. 44	28.81
26	1	RUNG SUPPORT : 60 X 60 X 6 RSA	1400	ST. 44	7.59
27	1	RUNG SUPPORT : 60 X 60 X 6 RSA	1400	ST. 44	7.59
28	92	RUNG : ø 25 BAR	620	ST. 44	219.60
29	6	SPLICE PLATE : 250 X 116 X 6 (BEND)		ASTM A283 GR C	8.20
30	34	BOLTS & NUTS : M12 X 30		ASTEM A193 B7/ A194 GR 7	....
31	14	TIE ANGLE : 60 X 60 X 6 RSA	1900	ST. 44	144.17
32	14	BRACE ANGLE : 60 X 60 X 6 RSA	460	ST. 44	34.90
33	14	BRACE ANGLE : 60 X 60 X 6 RSA	460	ST. 44	34.90
34	14	STAY ANGLE : 60 X 60 X 6 RSA	1655	ST. 44	125.58
35	14	STAY ANGLE : 60 X 60 X 6 RSA	1655	ST. 44	125.58
36	17	TIE ANGLE : 60 X 60 X 6 RSA	640	ST. 44	58.97
37	30	CROSS BRACE : 60 X 60 X 6 RSA	895	ST. 44	145.53
38	1	HINGE BAR : ø 36 BAR	970	STAINLESS STEEL	7.75
39	2	NUTS : TO SUIT M36		STAINLESS STEEL	....
40	2	WASHERS : TO SUIT M36		STAINLESS STEEL	....
41	2	SPUT PIN : Ø 5	50	STAINLESS STEEL	0.02
42	1	BRACKET DOUBLER PAD : 900 X 125 X 12		ASTM A283 GR C	10.60
43	2	GUSSET PLATE : 188 X 175 X 12		ASTM A283 GR C	6.20
44	1	GUSSET PLATE : 109 X 82 X 5		ASTM A283 GR C	0.35
45	1	AXLE PIPE : 3" NB SCH 160	1196	ASTM A106 GR B	25.53
46	4	COLLAR PLATE:150 O/DIA X 92 I/DIA X 6 THK		ASTM A283 GR C	2.08
47	2	SIDE PLATE :500 O/DIA X 92 I/DIA X 8 THK		ASTM A283 GR C	23.81
48	2	SIDE PLATE :560 O/DIA X 92 I/DIA X 8 THK		ASTM A283 GR C	30.09
49	2	END PLATE : Ø 75 X 5 THK		ASTM A283 GR C	0.35
50	2	WHEEL RIM : 18" NB SCH 80	120	ASTM A106 GR B	61.10
51	2	BRASS BUSH : (SEE DRAWING)		BRASS	2.87
52	2	WHEEL CLAMP : (SEE DRAWING) X 6 THK		ST. 44	1.81
53	4	BOLTS : M16 X 40 LG (NO NUTS)		ASTM A193 B7	....
54	1	HANDRAIL POST : 60 X 60 X 8 RSA	1334	ST. 44	9.46
55	1	HANDRAIL POST : 60 X 60 X 8 RSA	1334	ST. 44	9.46
56	2	HORIZONTAL BRACE : 60 X 60 X 6 RSA	780	ST. 44	8.46
57	2	DIAGONAL BRACE : 700 X 50 X 5		ST. 44	2.75
58	2	HINGE BAR : ø 32 BAR	1280	ST. 44	16.15
59	4	BOLTS & NUTS : M16 X 50		ASTM A193 B7/ A194 GR 7	....
60	1	RUNG : Ø 25 BAR	770	ST. 44	2.96
TOTAL WEIGHT					4930.53

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

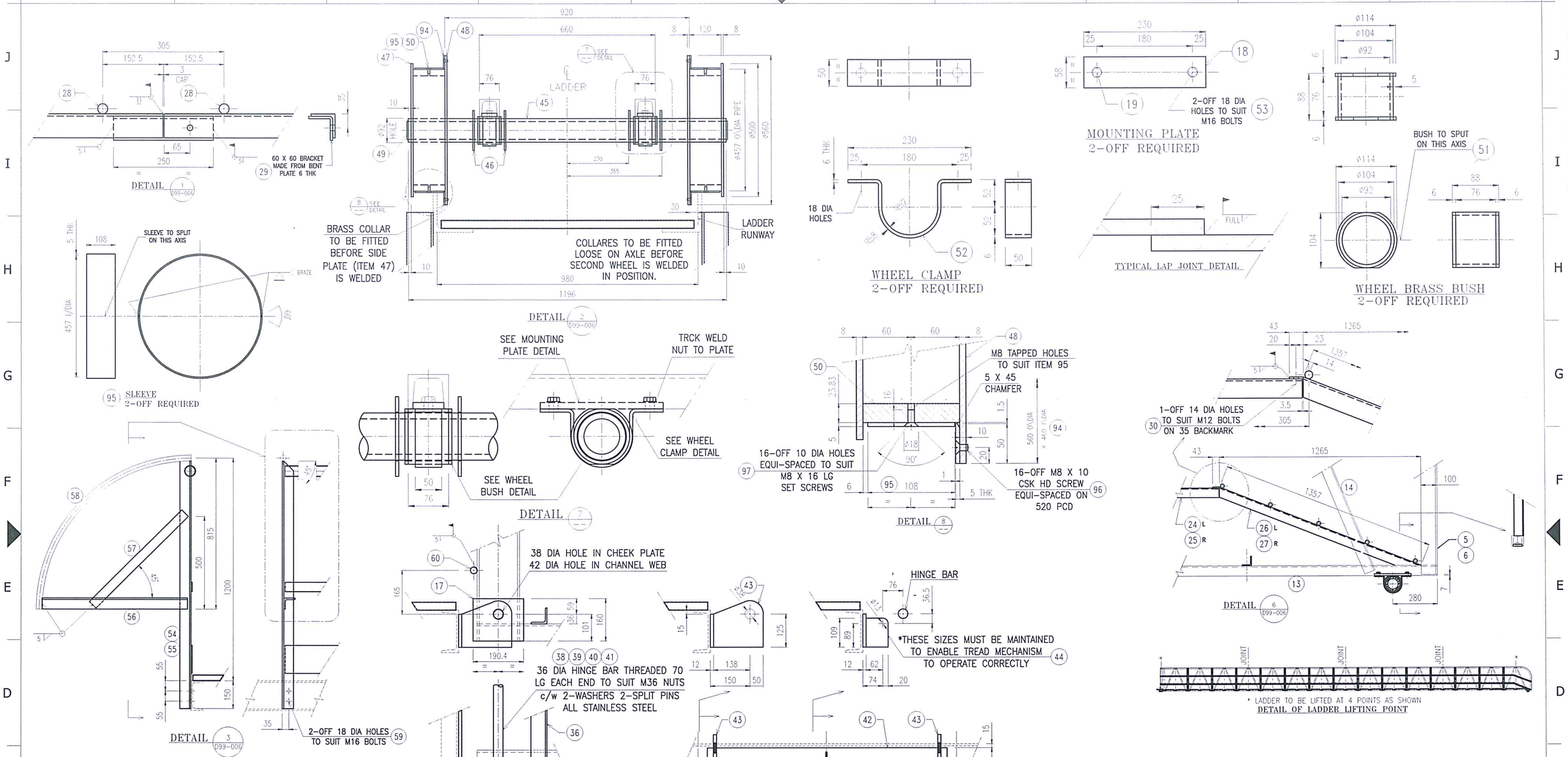
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

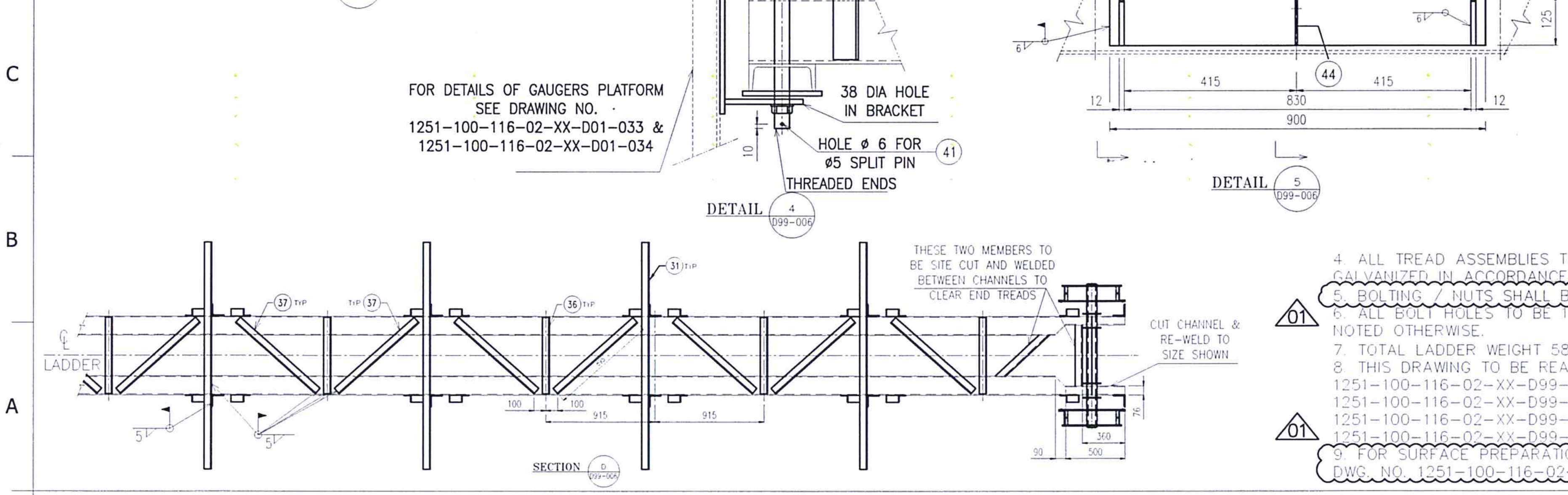
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Arrangement Drawing

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-006	1 OF 1	01





GENERAL NOTES:-

1. ALL WELDS TO BE 5mm CFW UNLESS NOTED OTHERWISE.
2. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL.
3. TREAD TO BE OPEN GRID FLOORING WITH 30X4 SERRATED LOAD BEARING BARS AT 30 CRS c/w 6mm SQUARE TWISTED TRANSVERSE BARS AT 50 CRS.
4. ALL TREAD ASSEMBLIES TO BE SHOP FABRICATED THEN HOT DIP GALVANIZED IN ACCORDANCE WITH BS 729
5. BOLTING / NUTS SHALL BE HDG
6. ALL BOLT HOLES TO BE 14 DIA TO SUIT M12 BOLTS UNLESS NOTED OTHERWISE.
7. TOTAL LADDER WEIGHT 5800 kgs (APPROXIMATE).
8. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D99-006, 1251-100-116-02-XX-D99-008, 1251-100-116-02-XX-D99-009, 1251-100-116-02-XX-D99-010, 1251-100-116-02-XX-D99-011, & 1251-100-116-02-XX-D99-012
9. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

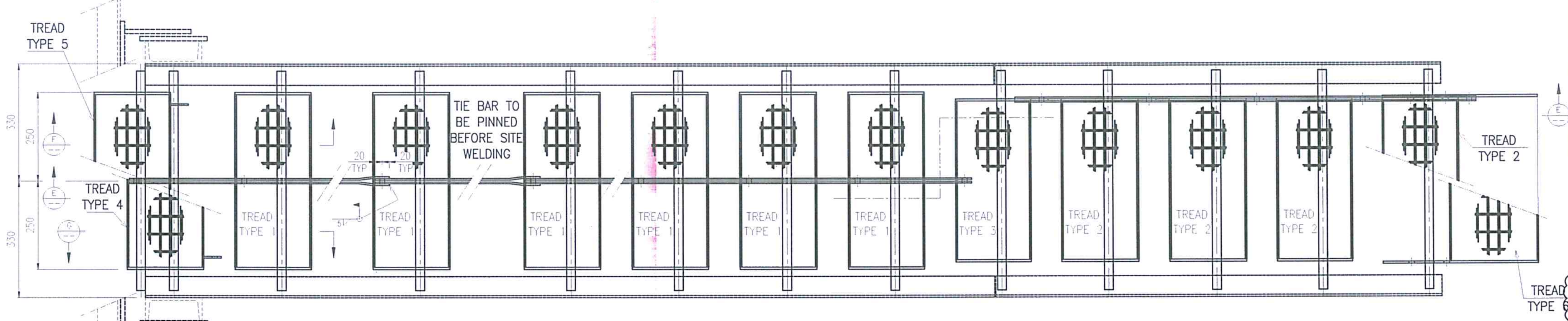
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO - A.R.E.

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

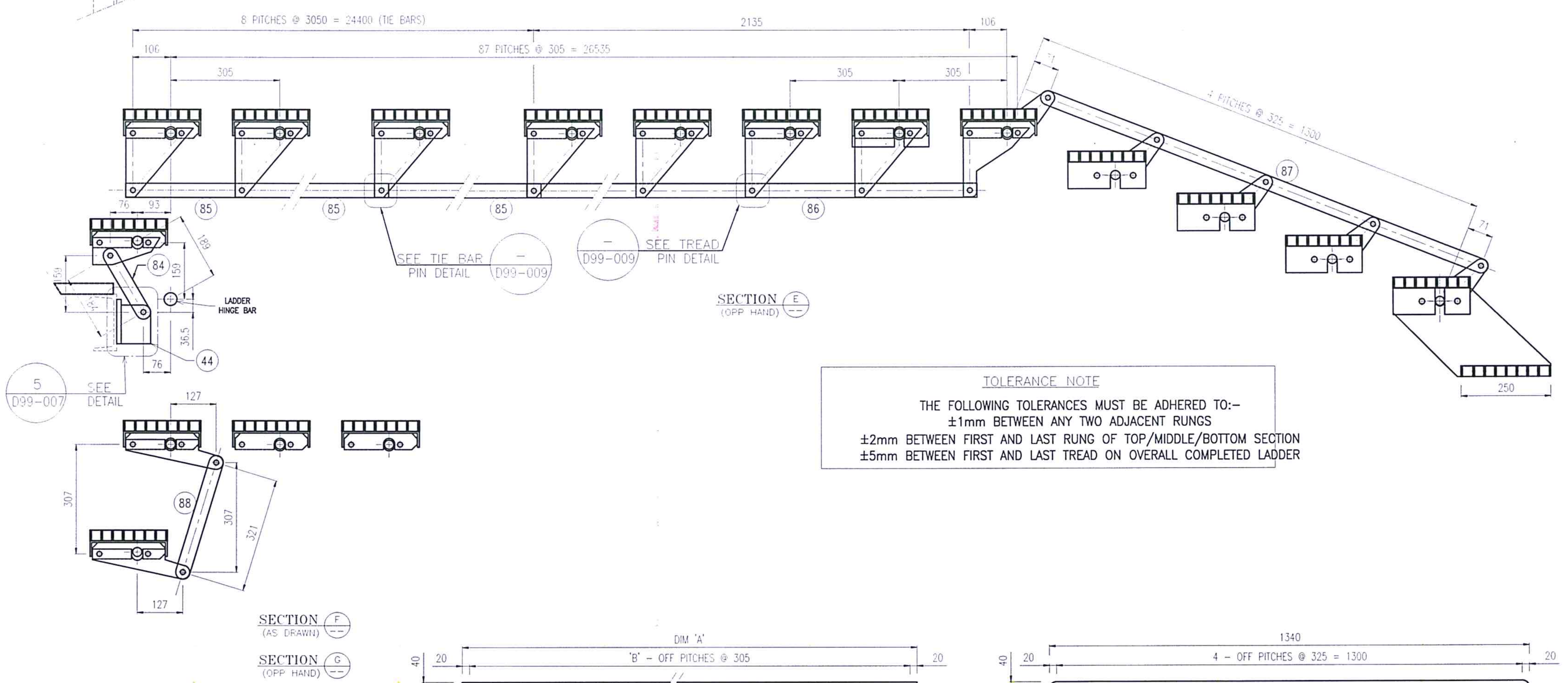
CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Details Drawing

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-007	1 OF 1	01

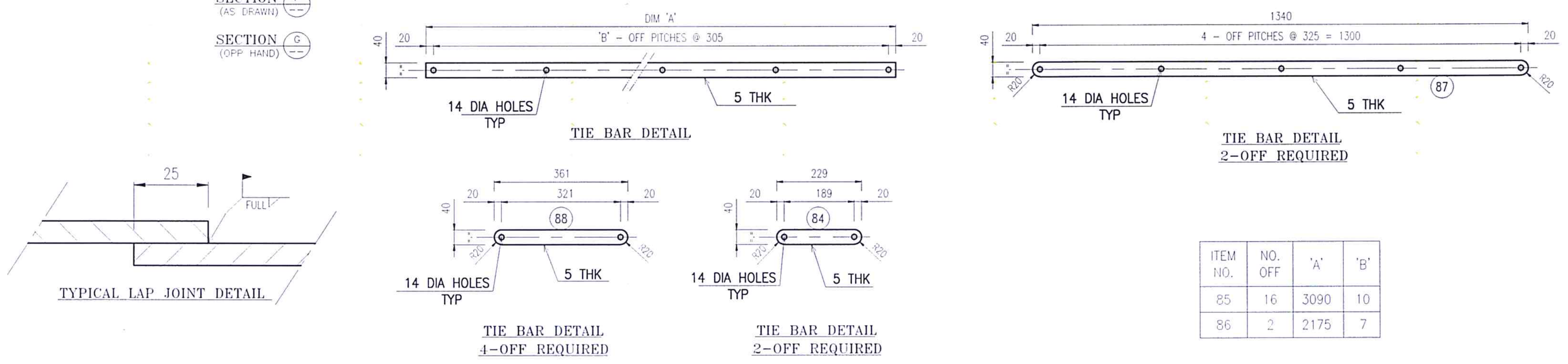


PART PLAN ON ROLLING LADDER TREADS



TOLERANCE NOTE

THE FOLLOWING TOLERANCES MUST BE ADHERED TO:–
±1mm BETWEEN ANY TWO ADJACENT RUNGS
±2mm BETWEEN FIRST AND LAST RUNG OF TOP/MIDDLE/BOTTOM SECTION
±5mm BETWEEN FIRST AND LAST TREAD ON OVERALL COMPLETED LADDER



ITEM NO.	NO. OFF	'A'	'B'
85	16	3090	10
86	2	2175	7

GENERAL NOTES: –

1. ALL WELDS TO BE 5mm CFW UNLESS NOTED OTHERWISE.
2. SITE TO ENSURE NO RAGGED OR SHARP EDGES IN HANDRAIL
3. TREADS TO BE OPEN GRID FLOORING WITH 30X4 SERRATED LOAD BEARING BARS AT 30 CRS c/w 6mm SQUARE TWISTED TRANSVERSE BARS AT 50 CRS
4. ALL TREAD ASSEMBLIES TO BE SHOP FABRICATED THEN HOT DIP GALVANIZED IN ACCORDANCE WITH BS 729
5. ALL BOLTS TO BE SPUN GALVANIZED.
6. ALL BOLT HOLES TO BE 14 DIA. TO SUIT M12 BOLTS UNLESS NOTED OTHERWISE
7. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D99-006, 1251-100-116-02-XX-D99-007, 1251-100-116-02-XX-D99-009, 1251-100-116-02-XX-D99-010, 1251-100-116-02-XX-D99-011, & 1251-100-116-02-XX-D99-012.
8. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG NO. 1251-100-116-02-XX-B01-001
9. BOLTING / NUTS SHALL BE HDG

01

BILL OF MATERIAL

ITEM NO.	REQ	DESCRIPTION AND SIZE OF MATERIAL	L	MATERIAL SPECIFICATION	WEIGHT (KG)
70	88	TREAD GRATING: 216 WIDE (SEE NOTES)	488	C.S. GALVANISED	176.24
71	5	TREAD GRATING: 216 WIDE (SEE NOTES)	448	C.S. GALVANISED	9.19
72	1	TREAD GRATING: 250 WIDE (SEE NOTES)	463	C.S. GALVANISED	2.20
73	178	END PLATE : 216 X 105 X 6		ASTM A283 GR C	190.14
74	8	END PLATE : 216 X 105 X 6		ASTM A283 GR C	8.55
75	2	END PLATE : 440 X 250 X 6		ASTM A283 GR C	10.36
76	97	WEB PLATE : 203 X 46 X 5		ASTM A283 GR C	35.55
77	97	BENT PLATE : 304 X 44 X 5		ASTM A283 GR C	50.93
78	5	LUG PLATE : 95 X 64 X 5		ASTM A283 GR C	1.19
79	87	GUSSET PLATE : 193 X 188 X 5		ASTM A283 GR C	123.90
80	1	GUSSET PLATE : 193 X 188 X 5		ASTM A283 GR C	1.42
81	1	GUSSET PLATE : 188 X 76 X 5		ASTM A283 GR C	0.56
82	4	GUSSET PLATE : 271 X 84 X 5		ASTM A283 GR C	3.57
83	4	GUSSET PLATE : 188 X 57 X 5		ASTM A283 GR C	1.68
84	2	TIE BAR : 244 X 40 X 5		ST. 44	0.70
85	16	TIE BAR : 3090 X 40 X 5		ST. 44	77.62
86	2	TIE BAR : 2175 X 40 X 5		ST. 44	6.83
87	2	TIE BAR : 1340 X 40 X 5		ST. 44	4.21
88	4	TIE BAR : 361 X 40 X 5		ST. 44	2.27
89	8	CHROME PLATED PIN: Ø 12 (SEE DRAWING)	40	ST. 44 (CHROME PLT)	0.28
90	91	CHROME PLATED PIN: Ø 12 (SEE DRAWING)	25	ST. 44 (CHROME PLT)	2.02
91	16	WASHERS : TO SUIT Ø12 PIN		STAINLESS STEEL	14.20
92	99	SPLIT PIN : Ø 3	25	STAINLESS STEEL	0.14
93	210	BOLTS & NUTS : M12 X 30		ASTM A193 B7/ A194 GR 7	....
94	2	COLLAR PLATE: 560 O/DIA X 460 I/DIA X 5 THK		BRASS	6.29
95	2	SLEEVE : 1451 X 108 X 5 (ROLLED 457 I/DIA)		BRASS	12.30
96	32	SET SCREW: M8 X 10 LG CSK HD		BRASS	....
97	32	SET SCREW: M8 X 16 LG CSK HD		BRASS	....
TOTAL WEIGHT					483.16

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

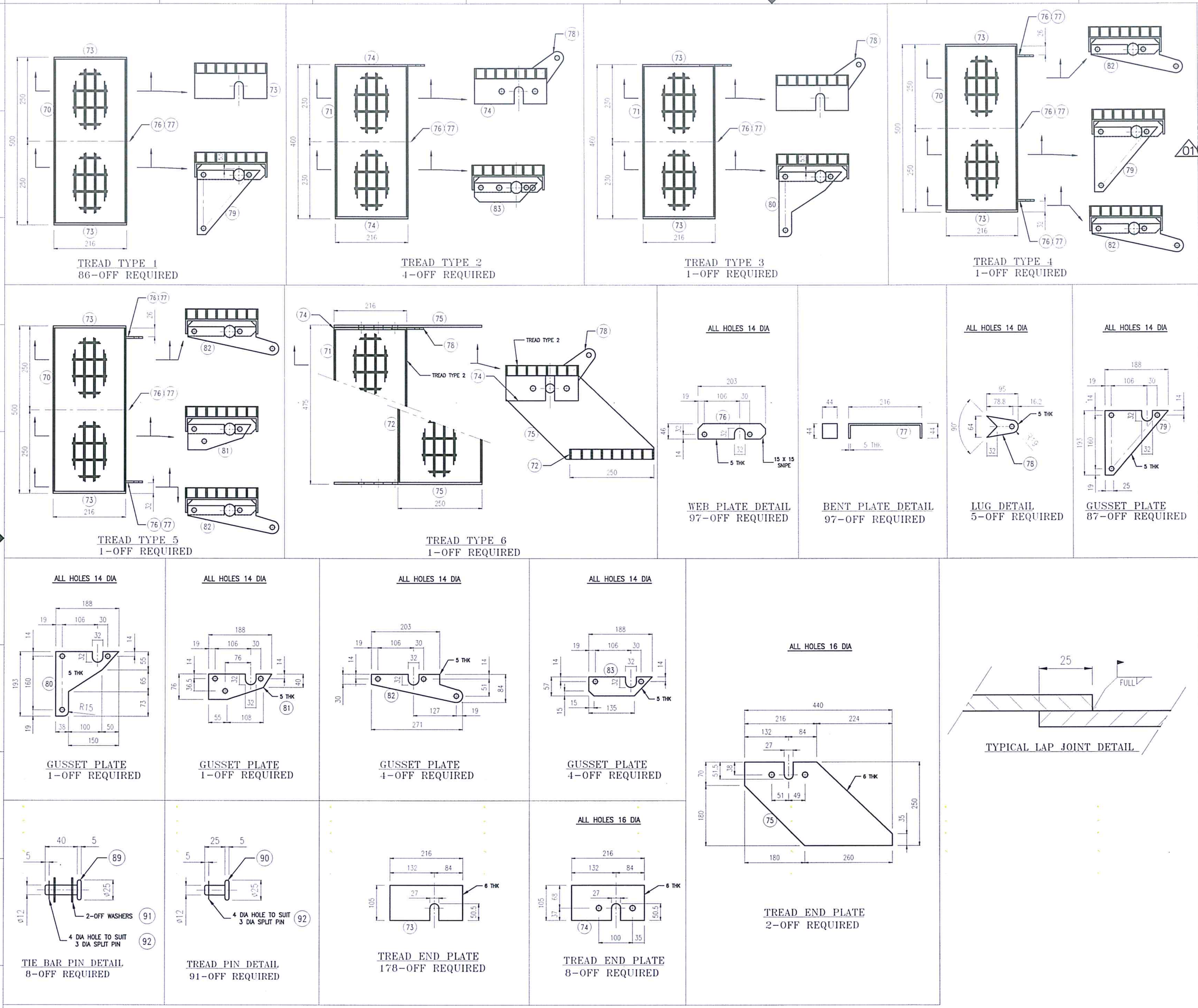
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Treads Arrangement Drawing

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-008	1 OF 1	01



GENERAL NOTES: -

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D99-006, 1251-100-116-02-XX-D99-007, 1251-100-116-02-XX-D99-008, 1251-100-116-02-XX-D99-010, 1251-100-116-02-XX-D99-011, & 1251-100-116-02-XX-D99-012.
2. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG NO 1251-100-116-02-XX-B01-001
3. BOLTING / NUTS SHALL BE HDG

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

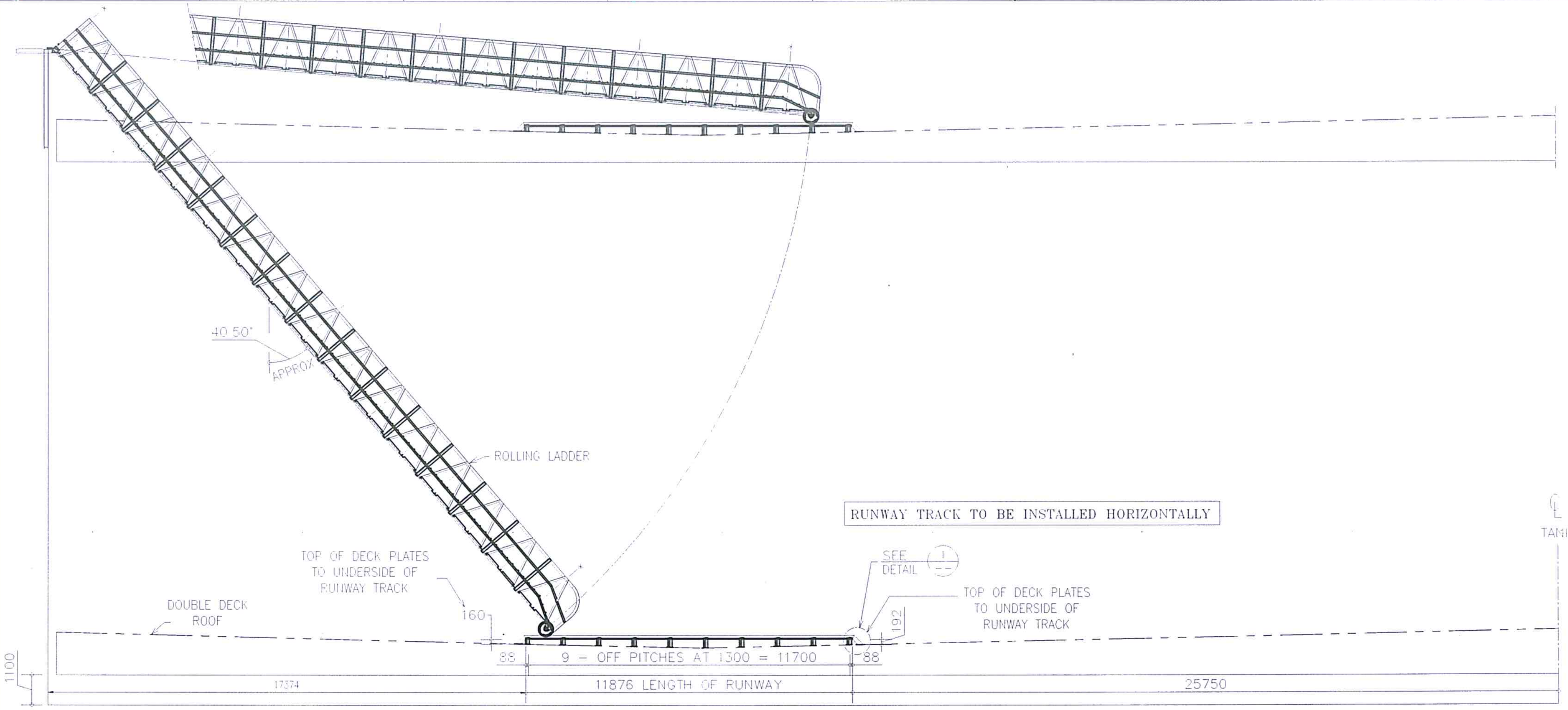
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK

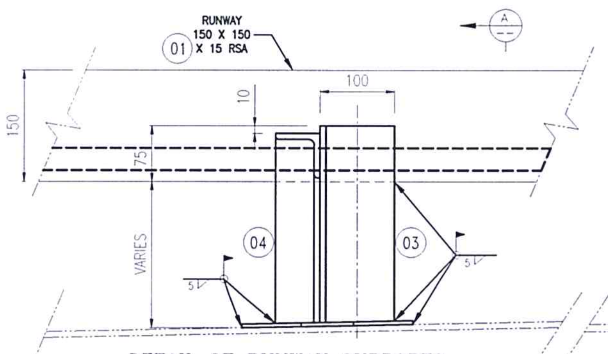
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Treads Details Drawing

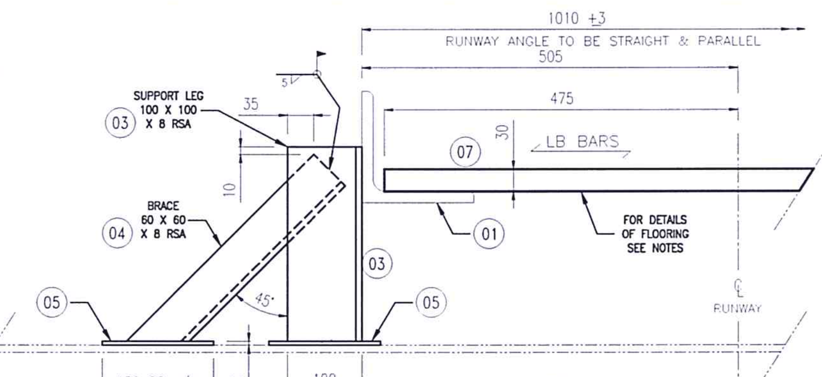
DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-009	1 OF 1	01



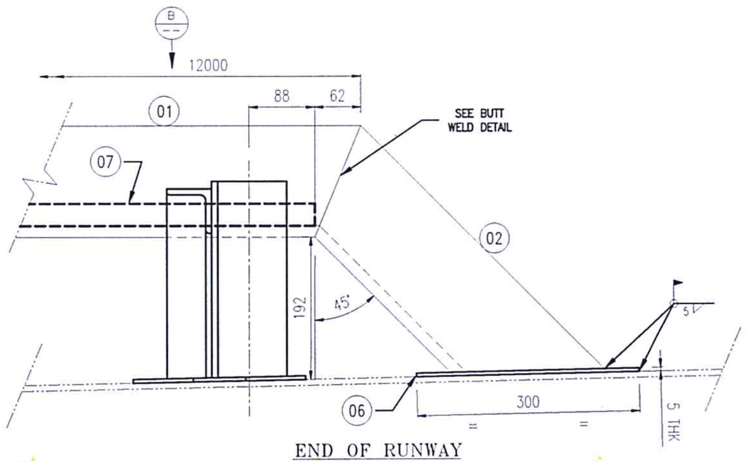
PART SECTION THROUGHT TANK SHOWING LOCATION OF ROLLING LADDER RUNWAY



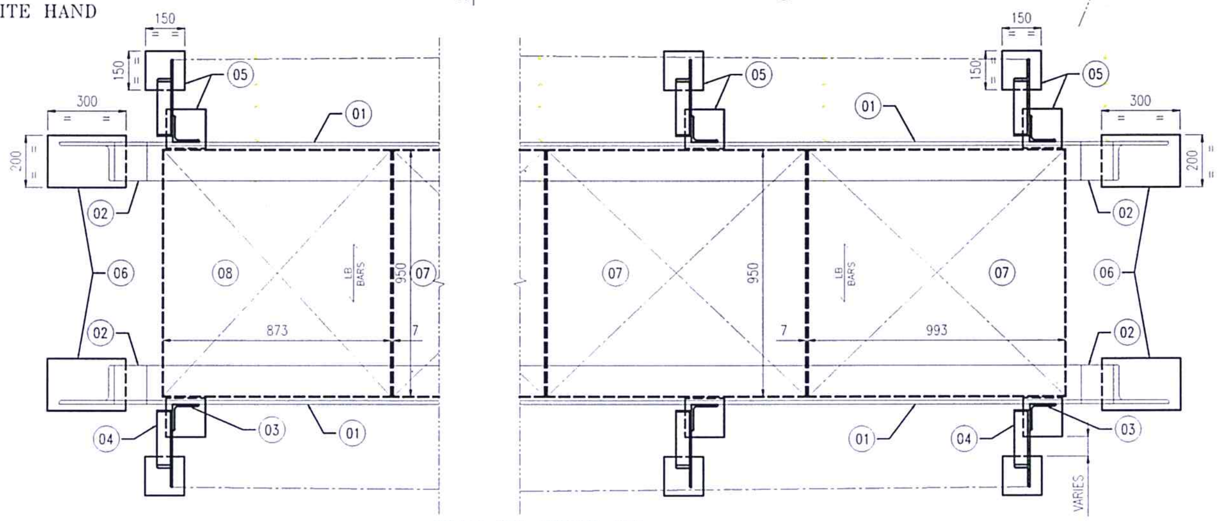
DETAIL OF RUNWAY SUPPORTS
10-OFF REQUIRED AS DRAWN
10-OFF REQUIRED OPPOSITE HAND



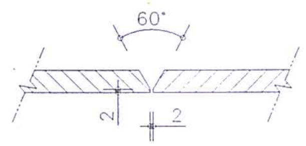
SECTION A



END OF RUNWAY DETAIL 1



PLAN ON ARROW (B)



BUTT WELD DETAIL

GENERAL NOTES: -

1. ALL WELDS TO BE 5MM CFW UNLESS NOTED OTHERWISE
2. FLOOR PANELS TO BE OPEN GRID WITH 30 x 4 SERRATED LOAD BEARING BARS AT 30 CRS C/W 6MM SQUARE TWISTED TRANSVERSE BARS AT 50 CRS
3. ALL FLOOR PANELS TO BE HOT DIP GALVANIZED IV ACCORDANCE WITH BS 729. CLIPS TO BE PROVIDED.
4. FLOOR PANELS TO HAVE A MINIMUM OF 4-OFF FIXING CLIPS PER PANEL.
5. FOR LOCATION OF LADDER RUNWAYS SEE TANK ORIENTATION DRAWING NO 1251-100-116-02-XX-B01-002
6. FOR DETAILS OF ROLLING LADDER SEE DRAWING 1251-100-116-02-XX-D99-006, 1251-100-116-02-XX-D99-007, 1251-100-116-02-XX-D99-008, 1251-100-116-02-XX-D99-009, 1251-100-116-02-XX-D99-011, & 1251-100-116-02-XX-D99-012.
7. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO 1251-100-116-02-XX-B01-001
8. BOLTING / NUTS SHALL BE HDG.

01

BILL OF MATERIAL

ITEM NO.	REQ	DESCRIPTION AND SIZE OF MATERIAL	L	MATERIAL SPECIFICATION	WEIGHT (KG)
1	2	RUNWAY ANGLE : 150 X 150 X 15 RSA	12000	ST. 44	811.20
*2	1	RUNWAY ANGLE : 150 X 150 X 15 RSA	2500	ST. 44	84.50
*3	1	SUPPORTS : 100 X 100 X 8 RSA	8000	ST. 44	97.60
*4	1	DIAGONAL BRACE : 60 X 60 X 8 RSA	10000	ST. 44	70.90
5	40	PADS : 150 X 150 X 5 THK c/w 10 RAD CORNERS		ASTM A283 GR C	35.33
6	4	PADS : 300 X 200 X 5 THK c/w 10 RAD CORNERS		ASTM A283 GR C	9.42
7	11	FLOOR PANEL : 993 WIDE (SEE NOTES)	950	C.S. GALVANISED	198.55
8	1	FLOOR PANEL : 876 WIDE (SEE NOTES)	950	C.S. GALVANISED	18.05
TOTAL WEIGHT					1325.55

* ITEMS MARKED THUS INDIVIDUAL LENGTHS REQUIRED TO BE SITE DETERMINED AND CUT FROM RANDOM LENGTH.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

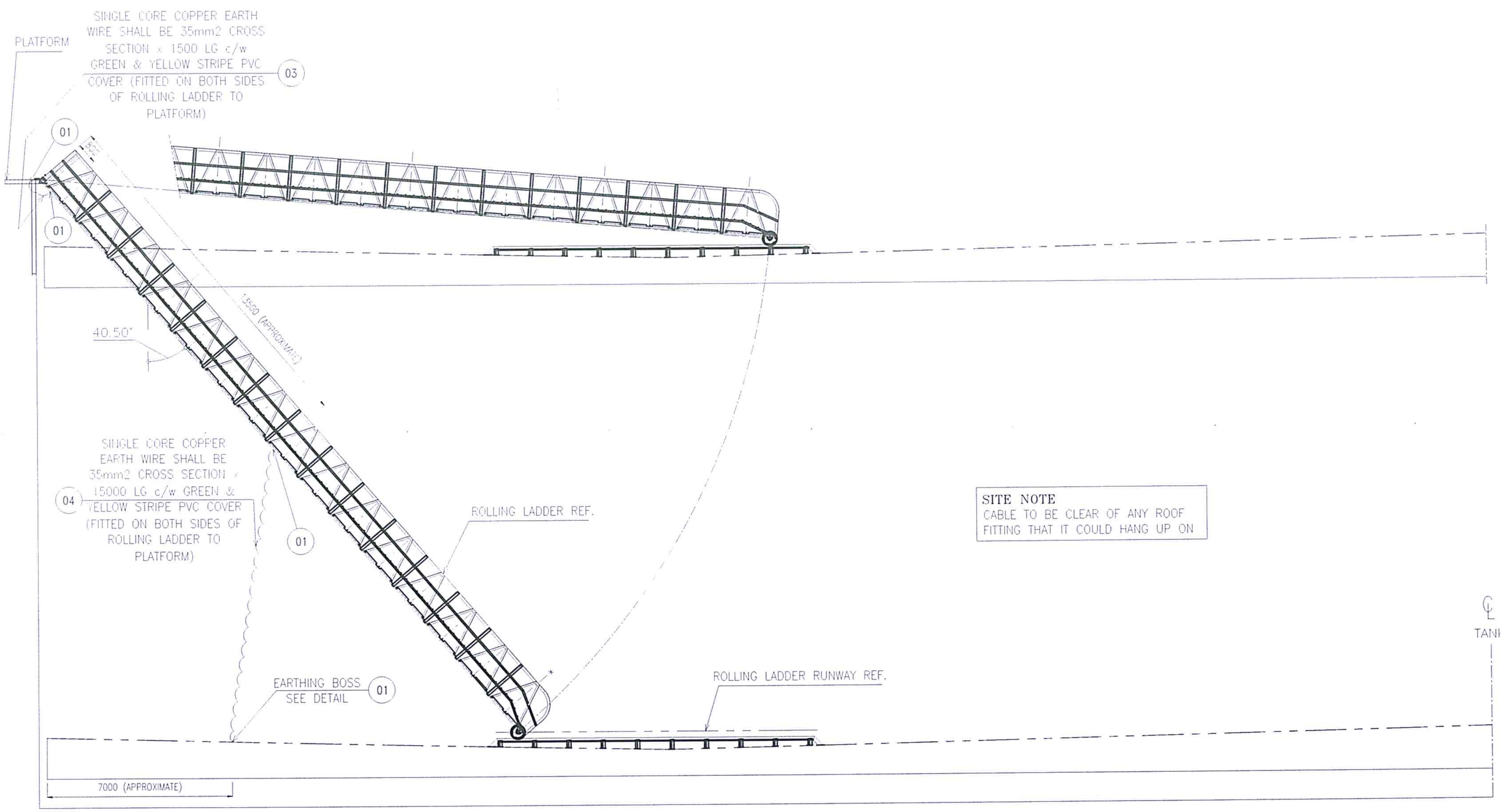
PETROJET THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO - A.R.E.

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Runway Drawing

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-010	1 OF 1	01



SECTION THROUGH TANK SHOWING EARTHING CABLE FOR ROLLING LADDER

GENERAL NOTES:-

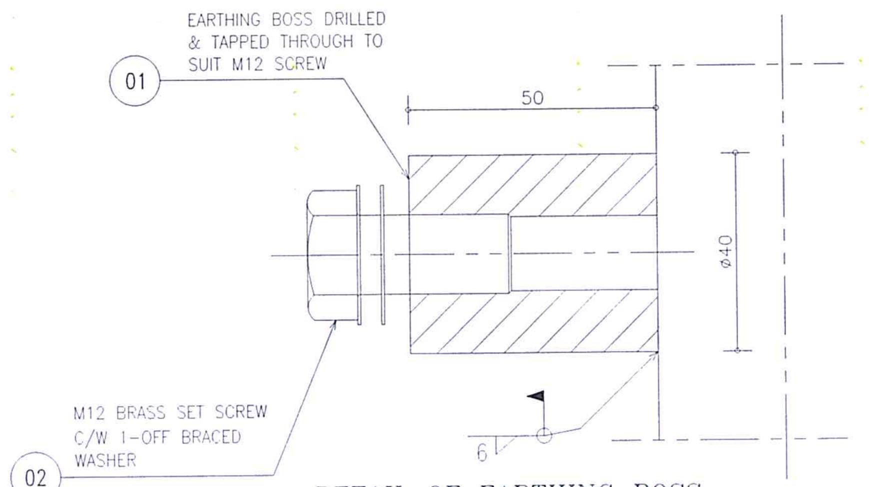
1. FOR DETAILS OF ROLLING LADDER SEE DRAWING
   1251-100-116-02-XX-D99-006,
   1251-100-116-02-XX-D99-007,
   1251-100-116-02-XX-D99-008,
   1251-100-116-02-XX-D99-009
   1251-100-116-02-XX-D99-010, &
   1251-100-116-02-XX-D99-012
2. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO 1251-100-116-02-XX-B01-001
3. BOLTING / NUTS SHALL BE HDG

01

BILL OF MATERIAL

ITEM NO.	REQ	DESCRIPTION AND SIZE OF MATERIAL	L	MATERIAL SPECIFICATION
1	8	EARTHING BOSS : 40 DIA.	50	STAINLESS STEEL
2	8	SETSCREW : M12 c/w WASHER	25	BRASS
3	2	CABLE : 35mm2 CROSS SECTION DIA. X 1500 LG SINGLE CORE COPPER EARTH WIRE c/w GREEN & YELLOW STRIPE PVC COVER & COMPRESSION TYPE CABLE LUGS TO SUIT M12 BOLT	1500	SUPPLIERS STANDERD
4	2	CABLE : 35mm2 CROSS SECTION DIA. X 15000 LG SINGLE CORE COPPER EARTH WIRE c/w GREEN & YELLOW STRIPE PVC COVER & COMPRESSION TYPE CABLE LUGS TO SUIT M12 BOLT	15000	SUPPLIERS STANDERD

01



DETAIL OF EARTHING BOSS
8-OFF REQUIRED

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	29/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

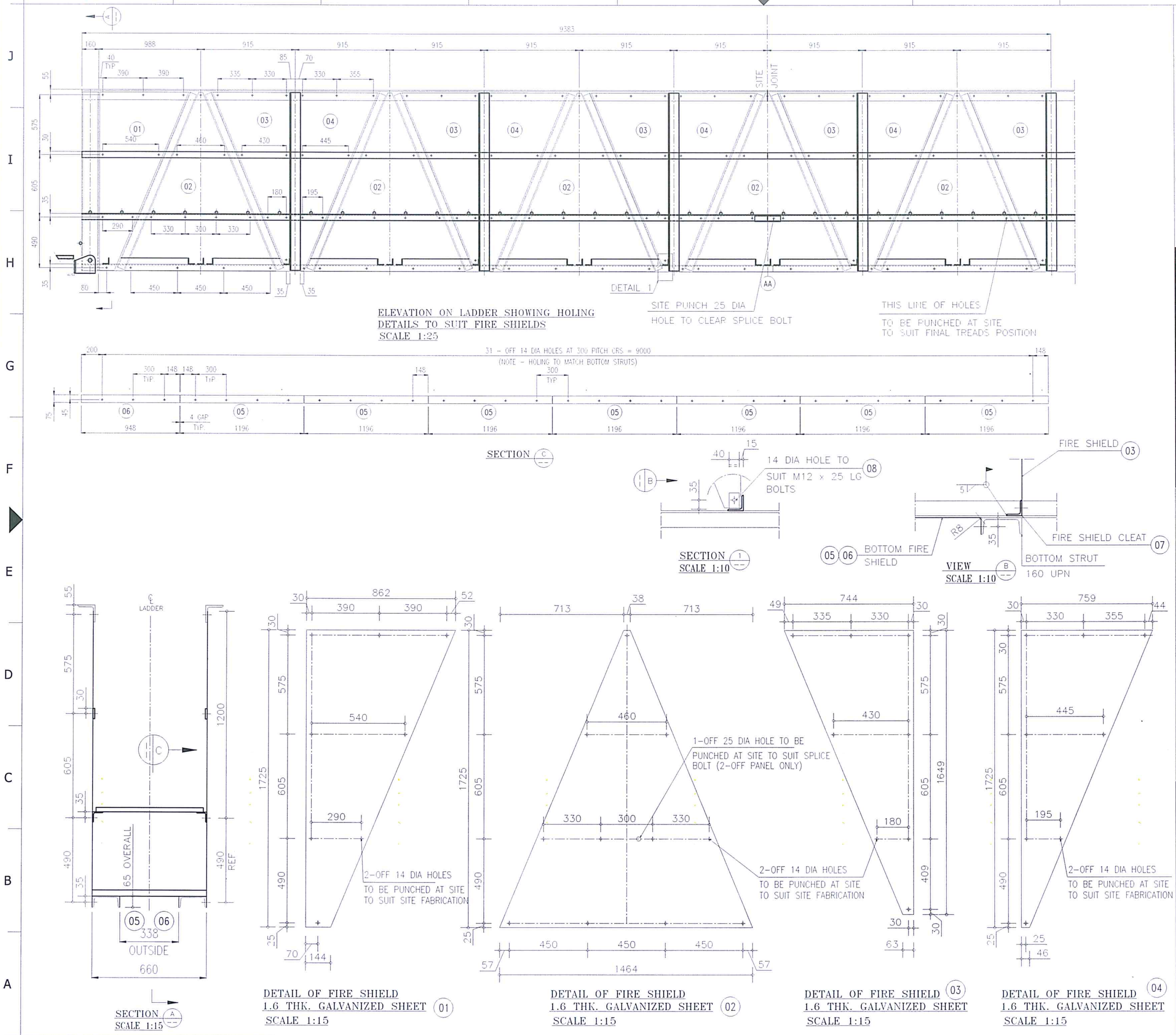
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Rolling Ladder Earthing Connection & Details Drawing

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-011	1 OF 1	01



GENERAL NOTES: -

1. ALL HOLES TO BE 14 DIAMETER TO SUIT M12 BOLTS UNLESS OTHERWISE NOTED
2. ALL HOLES TO BE MATCH MARKED TO ROLLING LADDER SHOP FABRICATION UNLESS OTHERWISE NOTED.
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 1251-100-116-02-XX-D99-006, 1251-100-116-02-XX-D99-007, 1251-100-116-02-XX-D99-008, 1251-100-116-02-XX-D99-009, 1251-100-116-02-XX-D99-010, & 1251-100-116-02-XX-D99-011.
4. FOR SURFACE PREPARATION REFER TO GENERAL ARRANGEMENT DWG. NO. 1251-100-116-02-XX-B01-001
5. BOLTING / NUTS SHALL BE HDG

01

BILL OF MATERIAL PER ONE LADDER

ITEM NO.	REQ	DESCRIPTION AND SIZE OF MATERIAL	MATERIAL SPECIFICATION
1	2	SHIELD PLATE : 1.6 THK. SHAPED TO DRAWING	CARBON STEEL (GALVANIZED)
2	10	SHIELD PLATE : 1.6 THK. SHAPED TO DRAWING	CARBON STEEL (GALVANIZED)
3	10	SHIELD PLATE : 1.6 THK. SHAPED TO DRAWING	CARBON STEEL (GALVANIZED)
4	8	SHIELD PLATE : 1.6 THK. SHAPED TO DRAWING	CARBON STEEL (GALVANIZED)
5	7	BOTTOM SHIELD : 460 x 1.6 THK. x 1196 (BENT)	CARBON STEEL (GALVANIZED)
6	1	BOTTOM SHIELD : 460 x 1.6 THK. x 948 (BENT)	CARBON STEEL (GALVANIZED)
7	10	CLEAT : 60 x 60 x 6 RSA x 40 LG	ST. 44
8	332	BOLTS & NUTS : M12 x 25 LG	ASTM A193 B7 / A194 GR 7

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	24/10/2019	ISSUED FOR CONSTRUCTION	M.D.	M.H.	H.A.
0	09/10/2019	ISSUED FOR APPROVAL	EL.Z.	M.H.	H.A.

Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

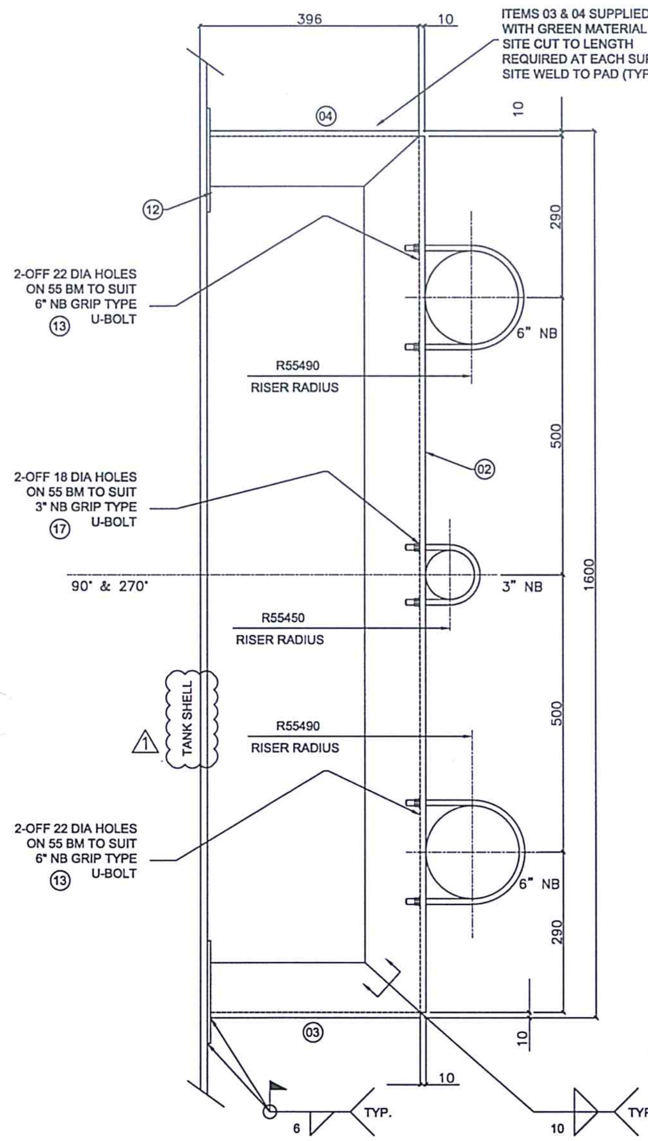
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E.

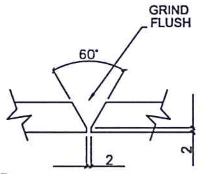
PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04/05, 020-T-01/02/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

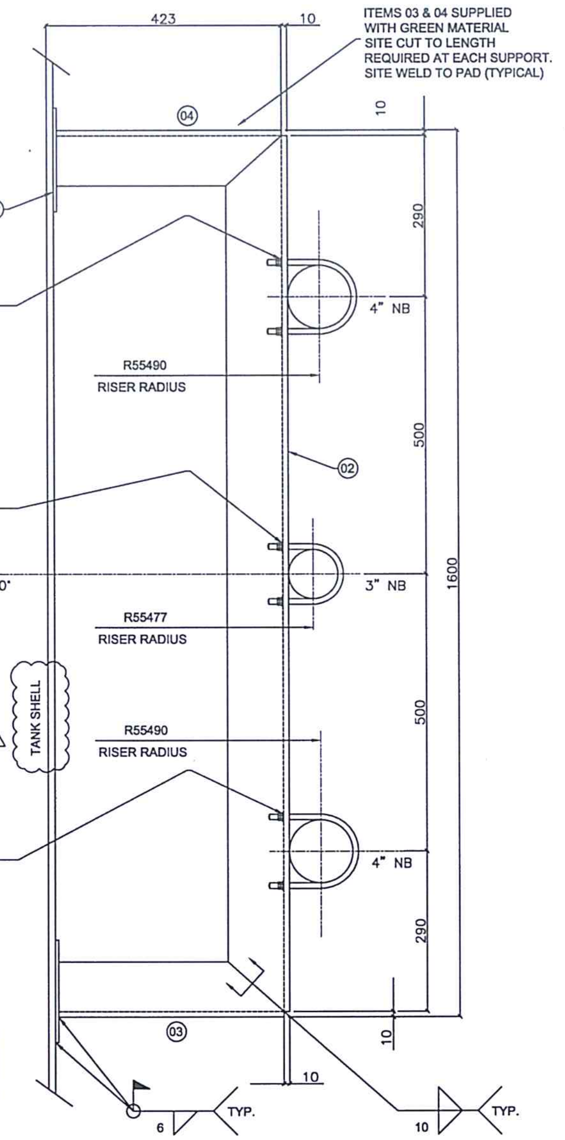
Rolling Ladder Fire Shield Details

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT: A2	1251-100-116-02-XX-D99-012	1 OF 1	01

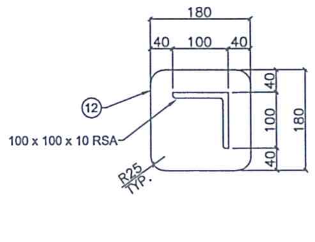




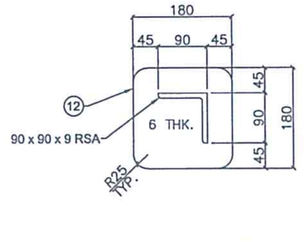
COMMON RISER SUPPORT RS1A TO RS1D
AT 6"NB WATER DELUGE & 3"NB FOAM RISERS
4–OFF REQUIRED = 8–OFF TOTAL



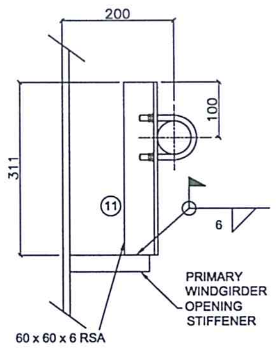
COMMON RISER SUPPORT RS2
AT 4"NB WATER DELUGE & 3"NB FOAM RISERS
1–OFF REQUIRED = 2–OFF TOTAL



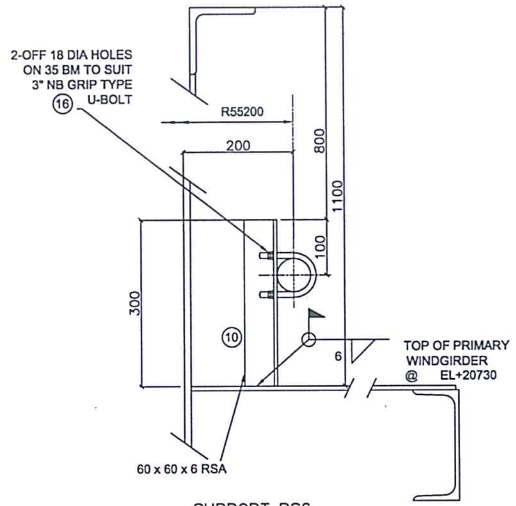
TYPICAL PAD DETAIL
10–OFF REQUIRED (AS DRAWN)
10–OFF REQUIRED (OPP HAND)



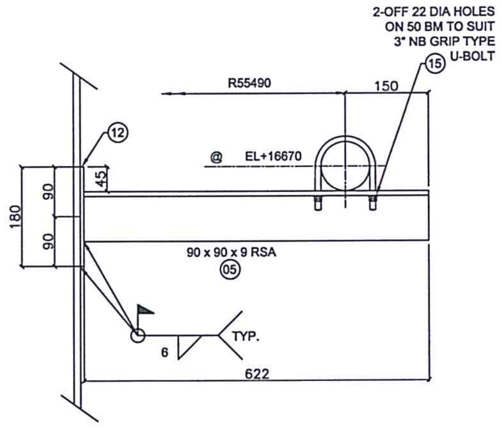
TYPICAL PAD DETAIL
108–OFF REQUIRED



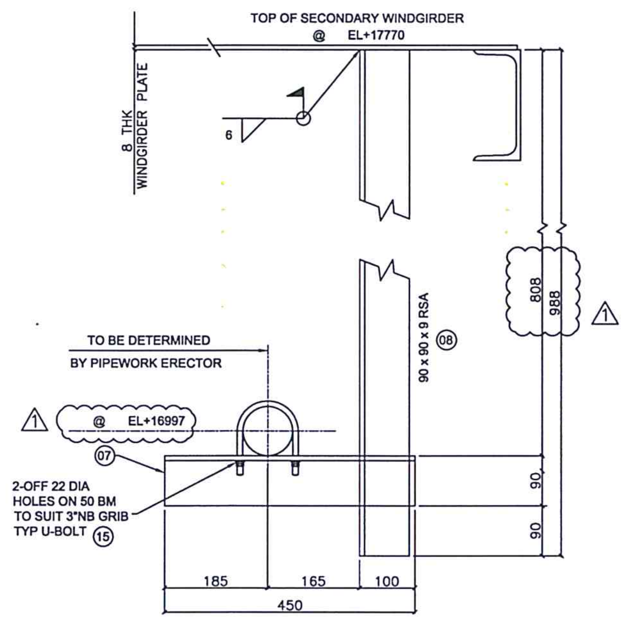
SUPPORT PS7
AT 3"NB FOAM RING
1–OFF REQUIRED



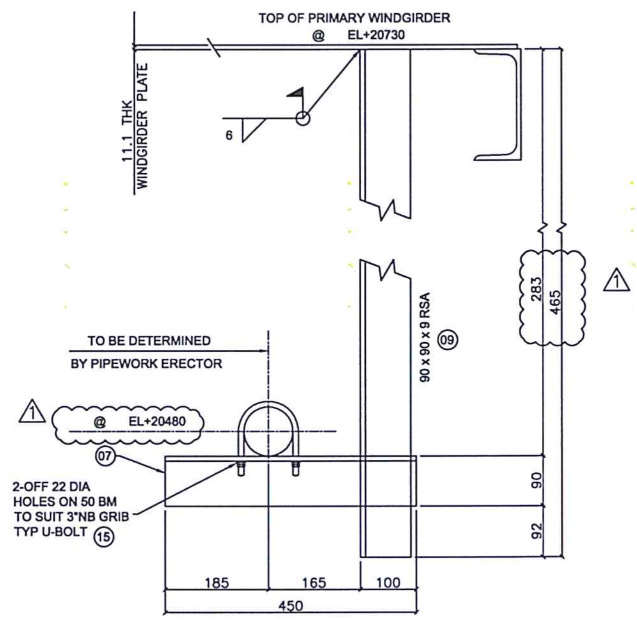
SUPPORT PS6
AT 3"NB FOAM RING
81–OFF REQUIRED



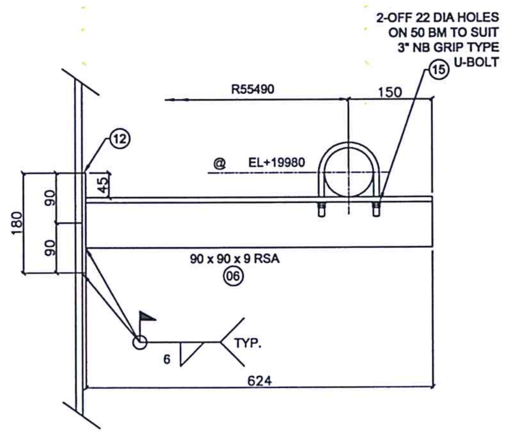
SUPPORT PS2
AT 3"NB LOWER WATER DELUGE COOLING RING
55–OFF REQUIRED



SUPPORT PS4
AT 3"NB LOWER WATER DELUGE COOLING RING
2–OFF REQUIRED



SUPPORT PS5
AT 3"NB UPPER WATER DELUGE COOLING RING
5–OFF REQUIRED



SUPPORT PS3
AT 3"NB UPPER WATER DELUGE COOLING RING
53–OFF REQUIRED

REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAILS
1251-100-116-02-XX-D99-019	UPPER/LOWER COOLING RING DETAILS.
1251-100-116-02-XX-D99-020	FOAM RING DETAILS
1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

PARTS LIST (FOR 1-OFF TANK)

Sr.	DESP PART	FABN PART	MATERIAL SPECIFICATION	DESCRIPTION AND SIZE OF MATERIAL
1	-	8	ST.44	SUP. ANGLE: 100x100x10 RSAx1580LG
2	-	2	ST.44	SUP. ANGLE: 100x100x10 RSAx1580LG
3*	-	10	ST.44	SUP. ANGLE: 100x100x10 RSAx400LG
4*	-	10	ST.44	SUP. ANGLE: 100x100x10 RSAx400LG
5	55	-	ST.44	SUP. ANGLE: 90x90x9 RSAx622LG
6	53	-	ST.44	SUP. ANGLE: 90x90x9 RSAx624LG
7	7	-	ST.44	SUP. ANGLE: 90x90x9 RSAx450LG
8	2	-	ST.44	SUP. ANGLE: 90x90x9 RSAx1315LG
9	5	-	ST.44	SUP. ANGLE: 90x90x9 RSAx965LG
10	81	-	ST.44	SUP. ANGLE: 60x60x6 RSAx300LG
11	1	-	ST.44	SUP. ANGLE: 60x60x6 RSAx311LG
12	128	-	A283 GR C	PAD: 180x6x180 c/w 25 RAD CORNERS
13	16	-	SEE NOTE 4	GRIP TYPE U-BOLT: TO SUIT 6"NB CS PIPE
14	4	-	SEE NOTE 4	GRIP TYPE U-BOLT: TO SUIT 4"NB CS PIPE
15	115	-	SEE NOTE 4	GRIP TYPE U-BOLT: TO SUIT 3"NB CS PIPE
16	82	-	SEE NOTE 4	GRIP TYPE U-BOLT: TO SUIT 3"NB CS PIPE
17	10	-	SEE NOTE 4	GRIP TYPE U-BOLT: TO SUIT 3"NB CS PIPE

*- THESE ITEMS SUPPLIED WITH GREEN MATERIAL.
- SITE TRIM AS REQUIRED.

29-OFF TANKS REQUIRED

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PIPE SUPPORT POSITIONS ARE APPROXIMATE. SITE TO ENSURE A MINIMUM CLEARANCE OF 150mm FROM SUPPORT WELDS TO ADJACENT TANK HORIZONTAL/VERTICAL SEAMS & WIND GIRDER JOINTS.
3- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.
4- U-BOLTS TO BE CARBON STEEL GRIP TYPE c/w 4-NUTS TO BS3974.
5- FOR SURFACE PREPARATION REFER TO GA No. 1251-100-116-02-XX-B01-001
6- INTERNAL SURFACE OF PIPING SYSTEM WILL BE PROTECTED AGAINST CORROSIVE WATER MEDIUM BY USING HOT DIP GALVANIZED PIPING.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	20/07/2020	ISSUED FOR APPROVAL			
0	23/12/2019	ISSUED FOR APPROVAL			

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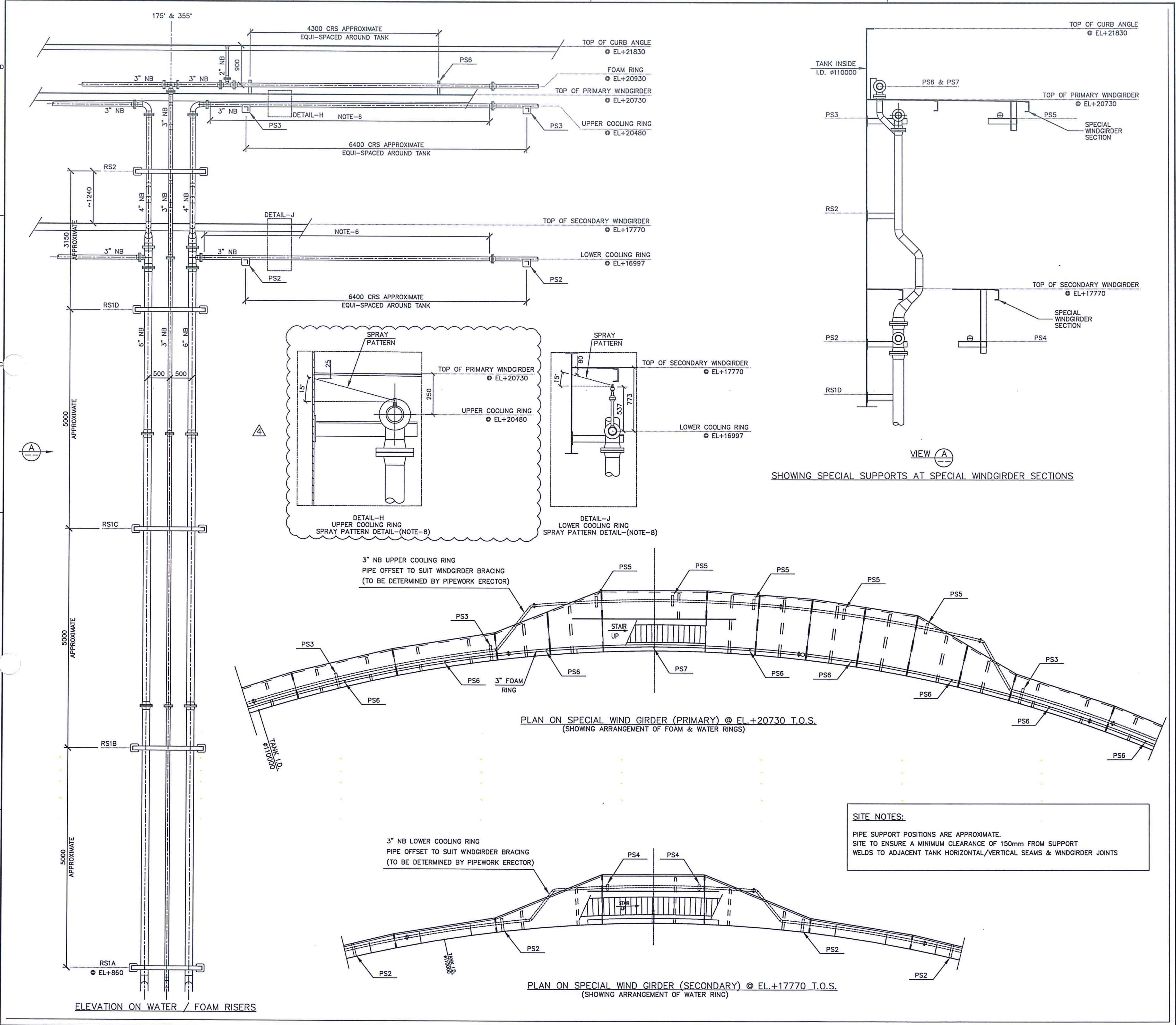
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010–T–01/02/03/04/05, 020–T–01/02/03, 021–T–01/02/03/04, 022–T–01/02/03/04/05, 030–T–01/02/03/04, 031–T–01/02, 070–T–01/02/03/04/05/06

Water Spray/Foam System Support Details

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	1251–100–116–02–XX–D99–017	0/0	1



SITE NOTES:

PIPE SUPPORT POSITIONS ARE APPROXIMATE.
SITE TO ENSURE A MINIMUM CLEARANCE OF 150mm FROM SUPPORT WELDS TO ADJACENT TANK HORIZONTAL/VERTICAL SEAMS & WINDGIRDER JOINTS

REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
4 1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PIPE SUPPORT POSITIONS ARE APPROXIMATE. SITE TO ENSURE A MINIMUM CLEARANCE OF 150mm FROM SUPPORT WELDS TO ADJACENT TANK HORIZONTAL/VERTICAL SEAMS & WIND GIRDER JOINTS.
3- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.
4- REFER TO DWG. N0. FF-03 FOR SUPPORTS DETAILS AND QUANTITIES.
5- REFERENCE ELEVATION IS TOP OF TANK BOTTOM PLATE.
6- FOR CUT/ARC LENGTH REFER TO FOAM & COOLING RINGS DETAILS DOC NOs:
1251-100-116-02-XX-D99-019
1251-100-116-02-XX-D99-020 4
7- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
8- FOR SPRAY NOZZLE CONNECTION DETAIL, REFER TO DWG. NO.:
1251-100-116-02-XX-D99-019 4

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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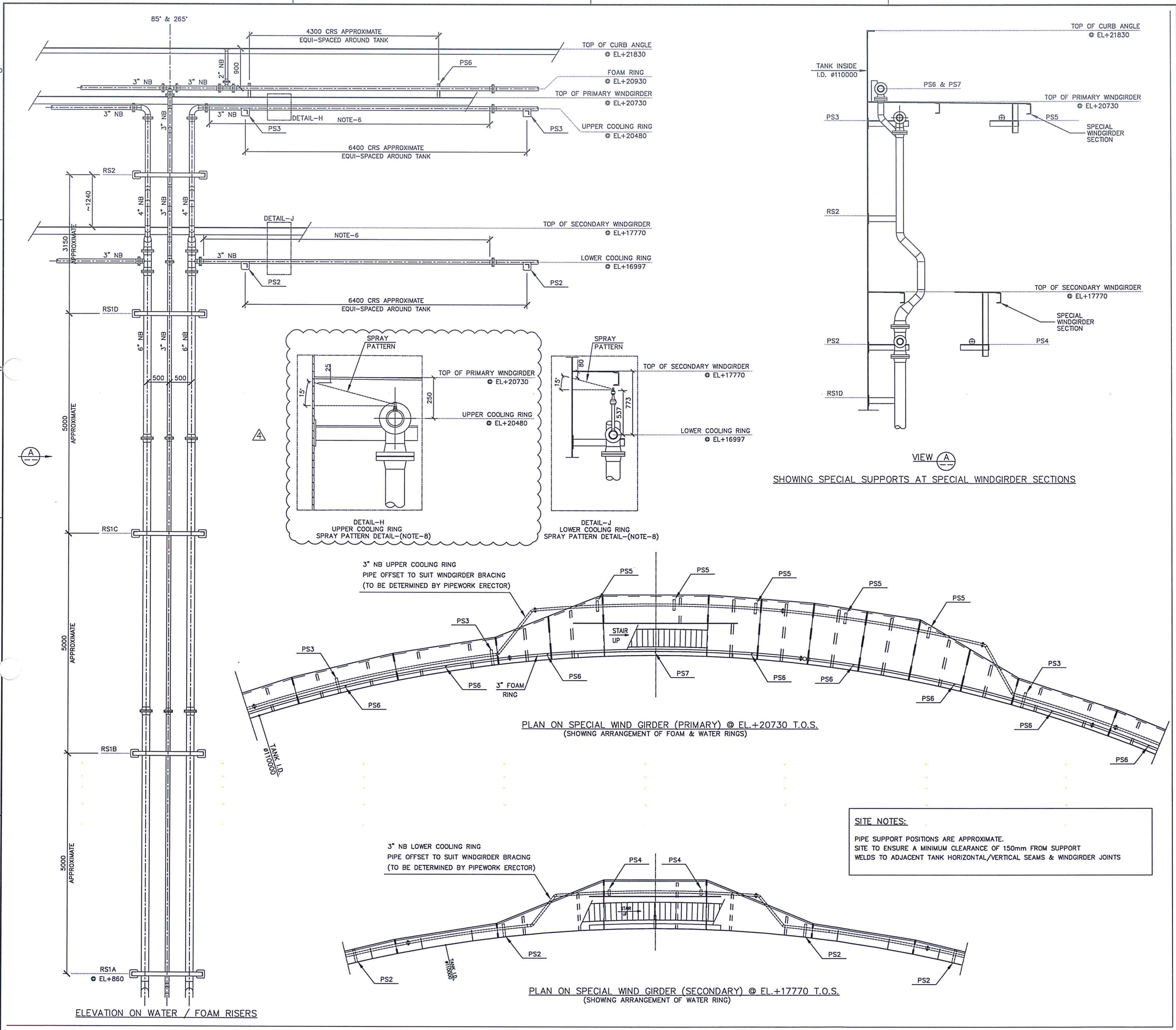
PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Water Spray/Foam System Support Arrangement/Details

DIMS .IN mm / FORMAT :A1	DRAWING NO.: 1251-100-116-02-XX-D99-018	SHEET No. 1/2	REVISION 4



SITE NOTES:

PIPE SUPPORT POSITIONS ARE APPROXIMATE.
SITE TO ENSURE A MINIMUM CLEARANCE OF 150mm FROM SUPPORT WELDS TO ADJACENT TANK HORIZONTAL/VERTICAL SEAMS & WINDGIRDER JOINTS

REFERENCE DRAWINGS

DWG N^{0}	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
4 1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- PIPE SUPPORT POSITIONS ARE APPROXIMATE. SITE TO ENSURE A MINIMUM CLEARANCE OF 150mm FROM SUPPORT WELDS TO ADJACENT TANK HORIZONTAL/VERTICAL SEAMS & WIND GIRDER JOINTS.
3- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.
4- REFER TO DWG. N0. FF-03 FOR SUPPORTS DETAILS AND QUANTITIES.
5- REFERENCE ELEVATION IS TOP OF TANK BOTTOM PLATE.
6- FOR CUT/ARC LENGTH REFER TO FOAM & COOLING RINGS DETAILS DOC NOs: 1251-100-116-02-XX-D99-019, 1251-100-116-02-XX-D99-020 (4)
7- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
8- FOR SPRAY NOZZLE CONNECTION DETAIL, REFER TO DWG. NO.: 1251-100-116-02-XX-D99-019 (4)

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

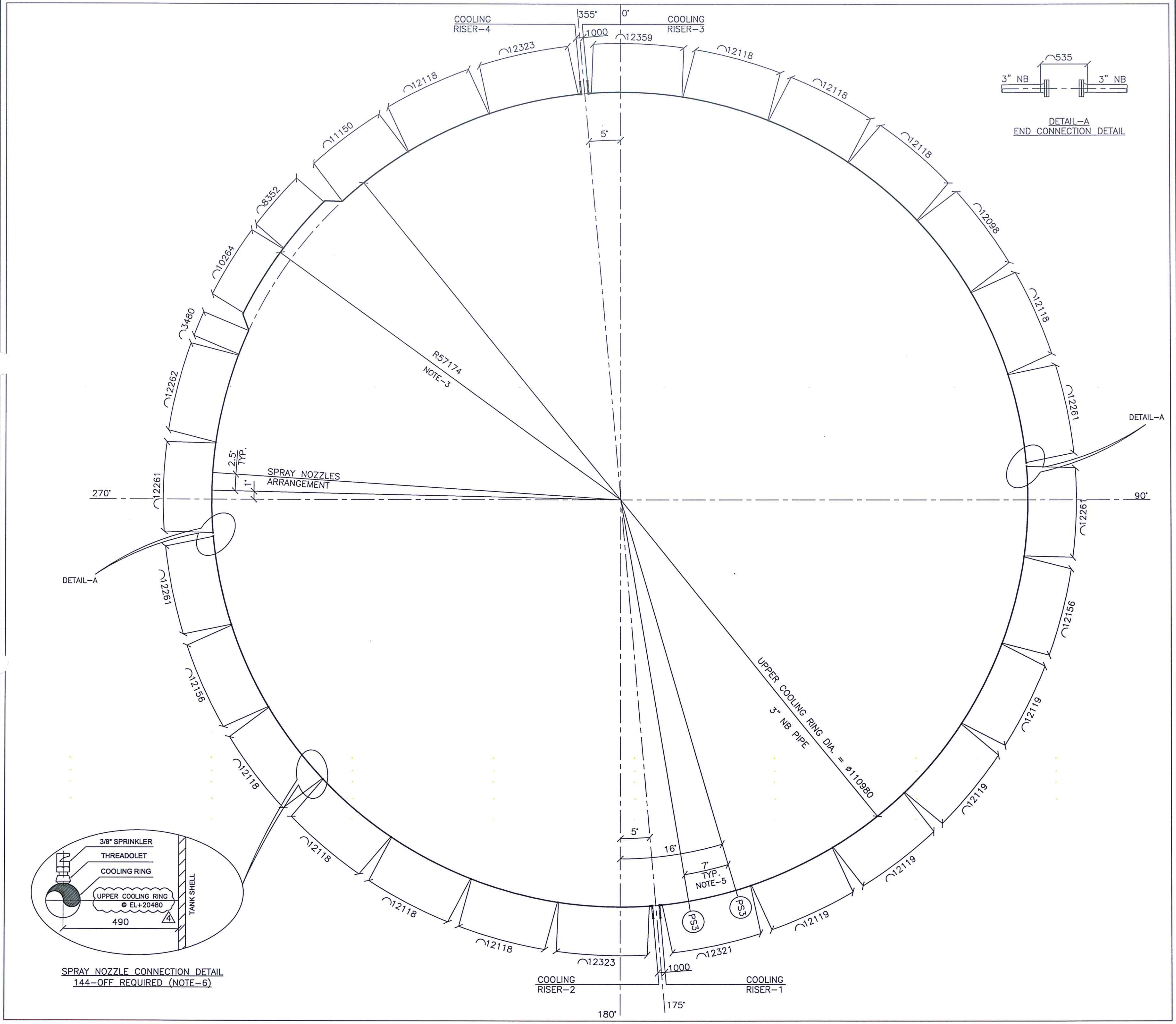
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PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Support Arrangement/Details

DIMS .IN mm / FORMAT :A1	DRAWING NO.: 1251-100-116-02-XX-D99-018	SHEET No. 2/2	REVISION 4



SPRAY NOZZLE CONNECTION DETAIL
144-OFF REQUIRED (NOTE-6)

DETAIL-A
END CONNECTION DETAIL

REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
4 1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
2	6m	3	PIPE, SMLS, SCH STD, ASTM A106 GR B
3	4	3	45 ELL, SCH STD, ASTM A234 GR WPB
4	58	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	4	3	FLG BLIND, 150LB, ASTM A105
6	29	5 / 8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
7	29	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
8	144	3 X 3/8	THRD-O-LET, THRD, 3000LB, ASTM A105
9	144	3/8	TANK COOL SPRAY NOZZLE, 140°, K=18.2 LPM/BAR$^{0.5}$, BRONZE/BRASS BODY.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

3- PIPE OFFSET TO SUIT WINDGIRDER BRACING; ACCURATE ORIENTATION TO BE DETERMINED/VERIFIED BY PIPEWORK ERECTOR.

4- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.

5- FOR SUPPORTS DETAILS AND QUANTITIES REFER TO DWG. NO.: 1251-100-116-02-XX-D99-017 .

6- FOR SPRAY PATTERN DETAIL, REFER TO DWG. NO.: 1251-100-116-02-XX-D99-018

4

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

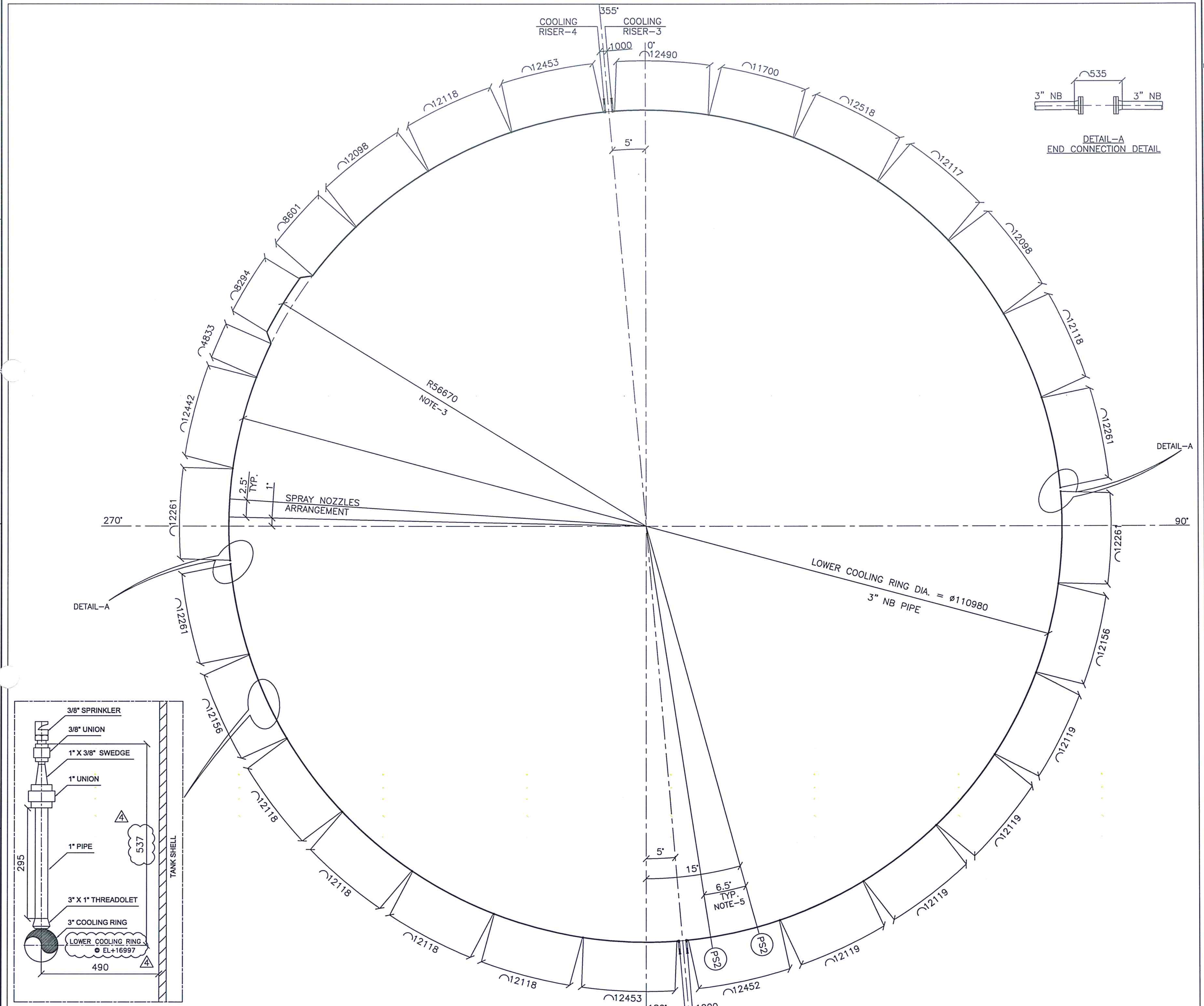
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PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06
Upper Cooling Ring Detail

DIMS .IN mm FORMAT :A1	DRAWING NO.: 1251-100-116-02-XX-D99-019	SHEET No. 1 / 4	REVISION 4



SPRAY NOZZLE CONNECTION DETAIL
144-OFF REQUIRED (NOTE-6)

REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
4 1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
2	6m	3	PIPE, SMLS, SCH STD, ASTM A106 GR B
3	4	3	45 ELL, SCH STD, ASTM A234 GR WPB
4	56	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	4	3	FLG BLIND, 150LB, ASTM A105
6	28	5 / 8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
7	28	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
8	144	3 X 1	THRD-O-LET, INTERNAL THRD, 3000LB, ASTM A105
9	144	1	4 PIPE, L= 310mm, SMLS, SCH XS, ASTM A106 GR B
10	144	1	UNION, INTERNAL THRD, 3000LB, ASTM A105
11	144	1 X 3/8	SWEDGE NIPPLES, EXTERNAL THRD, 3000LB, ASTM A234 GR WPB
12	144	3 / 8	UNION, INTERNAL THRD, 3000LB, ASTM A105
13	144	3 / 8	TANK COOL SPRAY NOZZLE, 140⁰ , K=18.2 LPM/BAR$^{0.5}$, BRONZE/BRASS BODY.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

3- PIPE OFFSET TO SUIT WINDGIRDER BRACING; ACCURATE ORIENTATION TO BE DETERMINED/VERIFIED BY PIPEWORK ERECTOR.

4- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.

5- FOR SUPPORTS DETAILS AND QUANTITIES REFER TO DWG. NO.: 1251-100-116-02-XX-D99-017 . 4

6- FOR SPRAY PATTERN DETAIL, REFER TO DWG. NO.: 1251-100-116-02-XX-D99-018

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

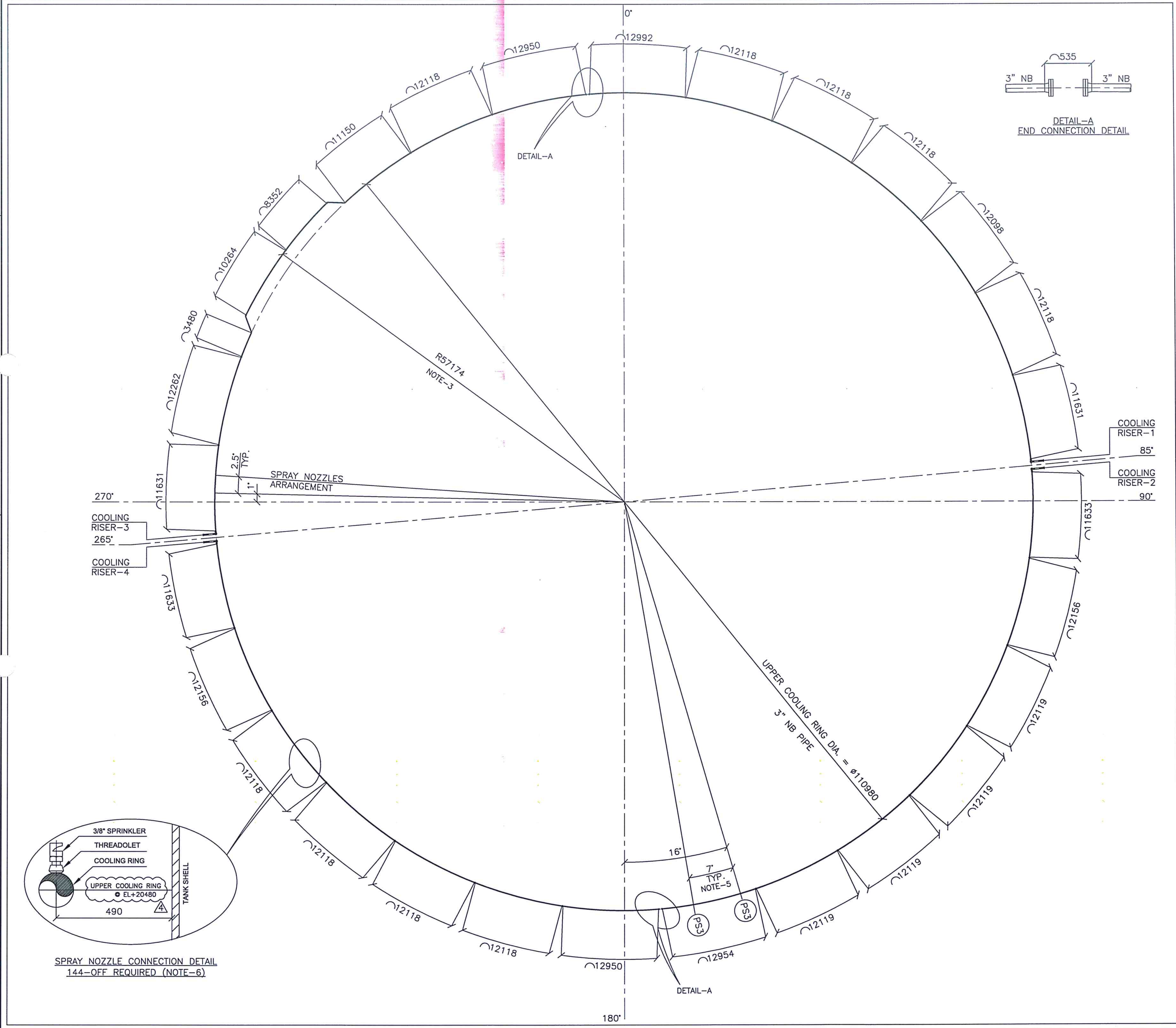
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06
Lower Cooling Ring Detail

DIMS .IN mm / FORMAT :A1	DRAWING NO.: 1251-100-116-02-XX-D99-019	SHEET No. 2 / 4	REVISION 4



REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
4 1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
2	6m	3	PIPE, SMLS, SCH STD, ASTM A106 GR B
3	4	3	45 ELL, SCH STD, ASTM A234 GR WPB
4	58	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	4	3	FLG BLIND, 150LB, ASTM A105
6	29	5 / 8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
7	29	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
8	144	3 X 3/8	THRD-O-LET, THRD, 3000LB, ASTM A105
9	144	3/8	TANK COOL SPRAY NOZZLE, 140⁰ , K=18.2 LPM/BAR$^{0.5}$, BRONZE/BRASS BODY.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

3- PIPE OFFSET TO SUIT WINDGIRDER BRACING; ACCURATE ORIENTATION TO BE DETERMINED/VERIFIED BY PIPEWORK ERECTOR.

4- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.

5- FOR SUPPORTS DETAILS AND QUANTITIES REFER TO DWG. NO.: 4 1251-100-116-02-XX-D99-017 .

6- FOR SPRAY PATTERN DETAIL, REFER TO DWG. NO.: 1251-100-116-02-XX-D99-018

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

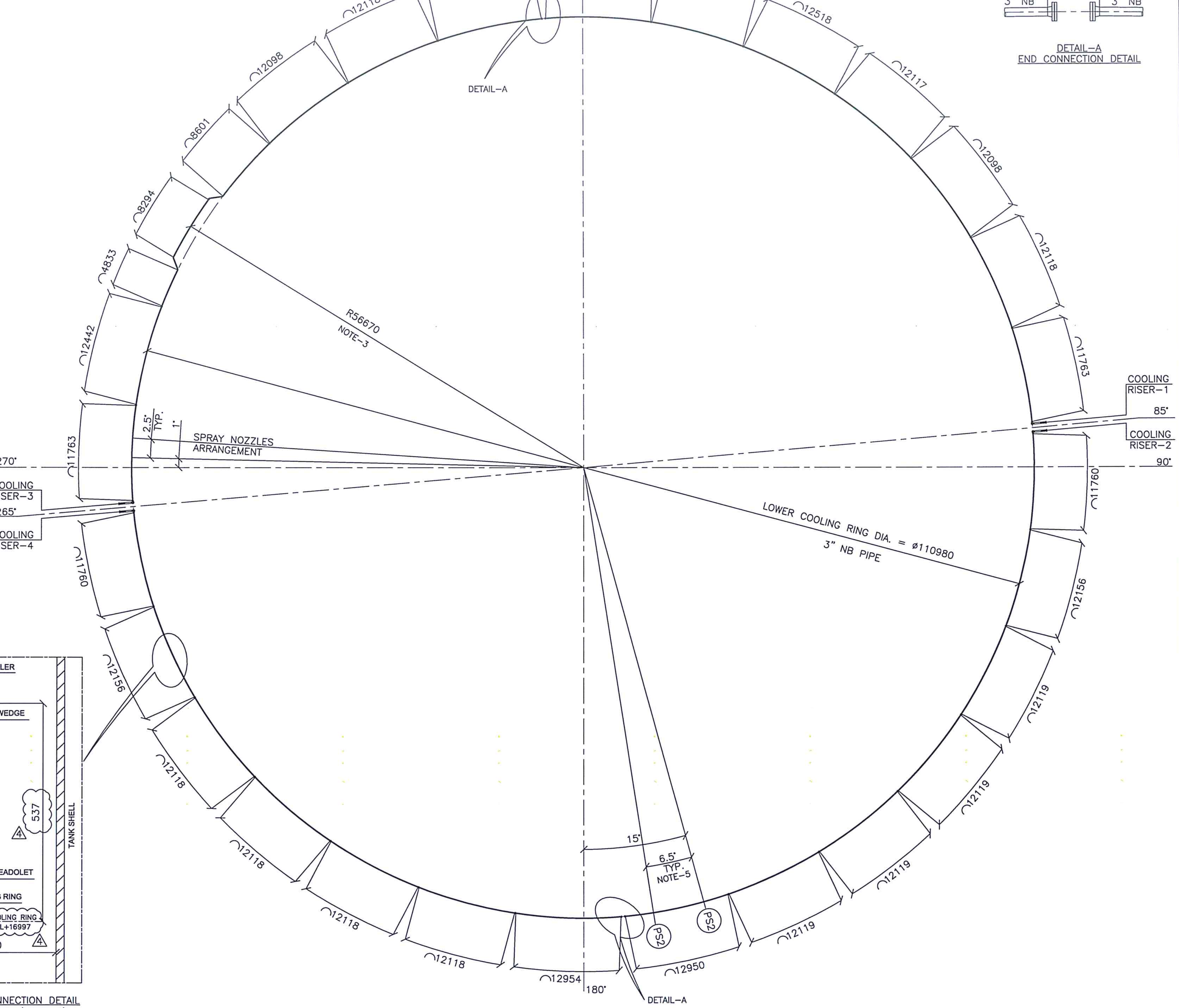
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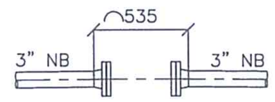
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

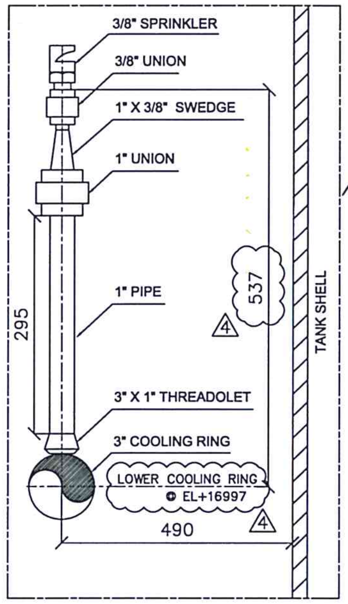
TANK I.D. 020-T-02
Upper Cooling Ring Detail

DIMS .IN mm / FORMAT :A1	DRAWING NO.: 1251-100-116-02-XX-D99-019	SHEET No. 3 / 4	REVISION 4





DETAIL–A
END CONNECTION DETAIL



SPRAY NOZZLE CONNECTION DETAIL
144–OFF REQUIRED (NOTE–6)

REFERENCE DRAWINGS

DWG N⁰	DESCRIPTIONS
1251-100-116-02-XX-D99-017	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
1251-100-116-02-XX-D99-018	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
1251-100-116-02-XX-D99-021	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
2	6m	3	PIPE, SMLS, SCH STD, ASTM A106 GR B
3	4	3	45 ELL, SCH STD, ASTM A234 GR WPB
4	56	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	4	3	FLG BLIND, 150LB, ASTM A105
6	28	5 / 8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
7	28	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
8	144	3 X 1	THRD-O-LET, INTERNAL THRD, 3000LB, ASTM A105
9	144	1	PIPE, L= 310mm, SMLS, SCH XS, ASTM A106 GR B
10	144	1	UNION, INTERNAL THRD, 3000LB, ASTM A105
11	144	1 X 3/8	SWEDGE NIPPLES, EXTERNAL THRD, 3000LB, ASTM A234 GR WPB
12	144	3 / 8	UNION, INTERNAL THRD, 3000LB, ASTM A105
13	144	3 / 8	TANK COOL SPRAY NOZZLE, 140⁰ , $K=18.2$ LPM/$BAR^{0.5}$, BRONZE/BRASS BODY.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

3- PIPE OFFSET TO SUIT WINDGIRDER BRACING; ACCURATE ORIENTATION TO BE DETERMINED/VERIFIED BY PIPEWORK ERECTOR.

4- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.

5- FOR SUPPORTS DETAILS AND QUANTITIES REFER TO DWG. NO.: 1251-100-116-02-XX-D99-017 .

6- FOR SPRAY PATTERN DETAIL, REFER TO DWG. NO.: 1251-100-116-02-XX-D99-018

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
4	17/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A–RAZIK
3	20/07/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A–RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A–RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A–RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A–RAZIK

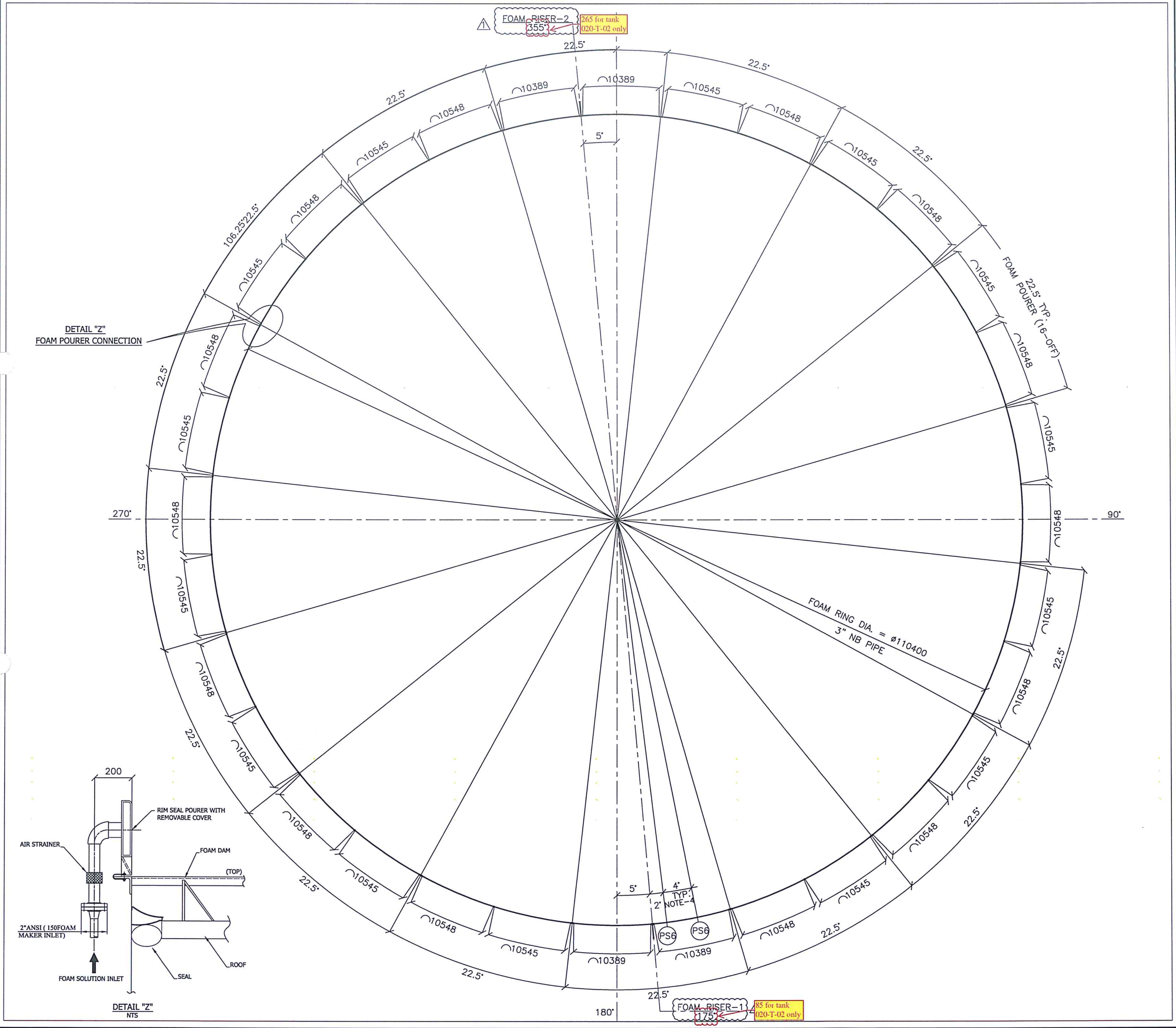
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020–T–02
Lower Cooling Ring Detail

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	1251–100–116–02–XX–D99–019	4 / 4	4



REFERENCE DRAWINGS

DWG N°	DESCRIPTIONS
2019/CRUDE OIL-ALL TANK-30-D-3-FF-03	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
2019/CRUDE OIL-ALL TANK-30-D-3-FF-04	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	12m	2	PIPE, SMLS, SCH STD, ASTM A106 GR B
2	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
3	16	3X2	TEE RED, SCH STD, ASTM A234 GR WPB
4	48	2	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	96	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
6	16	2	FOAM POURER, 2", 150LB,RF FLANGED INLET SIZE
7	32	5/8	(4) STUD BOLTS W/ NUTS, 83 LG, ASTM A193/194 GR B7/2H
8	46	5/8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
9	32	2	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
10	46	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION. ⚠
3- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.
4- REFER TO DWG. N0. FF-03 FOR SUPPORTS DETAILS AND QUANTITIES.

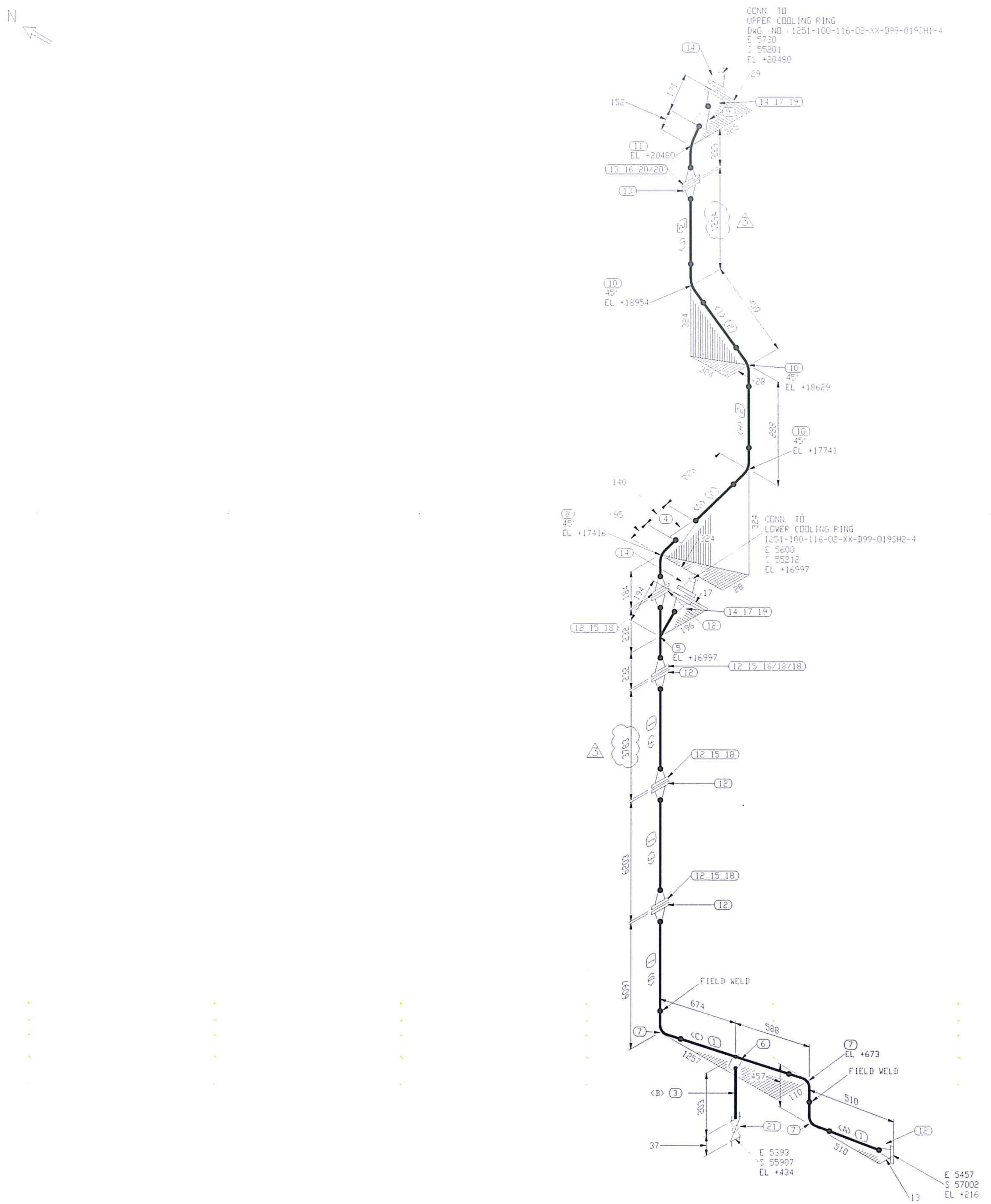
REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A−RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A−RAZIK

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PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010−T−01/02/03/04/05, 020−T−01/02/03, 021−T−01/02/03/04, 022−T−01/02/03/04/05, 030−T−01/02/03/04, 031−T−01/02, 070−T−01/02/03/04/05/06
Foam Ring Detail

DIMS .IN mm / FORMAT :A1	DRAWING NO.: 1251−100−116−02−XX−D99−020	SHEET No. 1 / 1	REVISION 1



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16405 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC. SCH STD. ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED. SCH STD. ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC. SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG. ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG. ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG. ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.3

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
(A)	192	6
(B)	100	1/2
(C)	804	6
(D)	5779	6
(E)	6025	6
(F)	3605	6
(G)	161	4
(H)	761	4
(I)	333	4
(J)	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

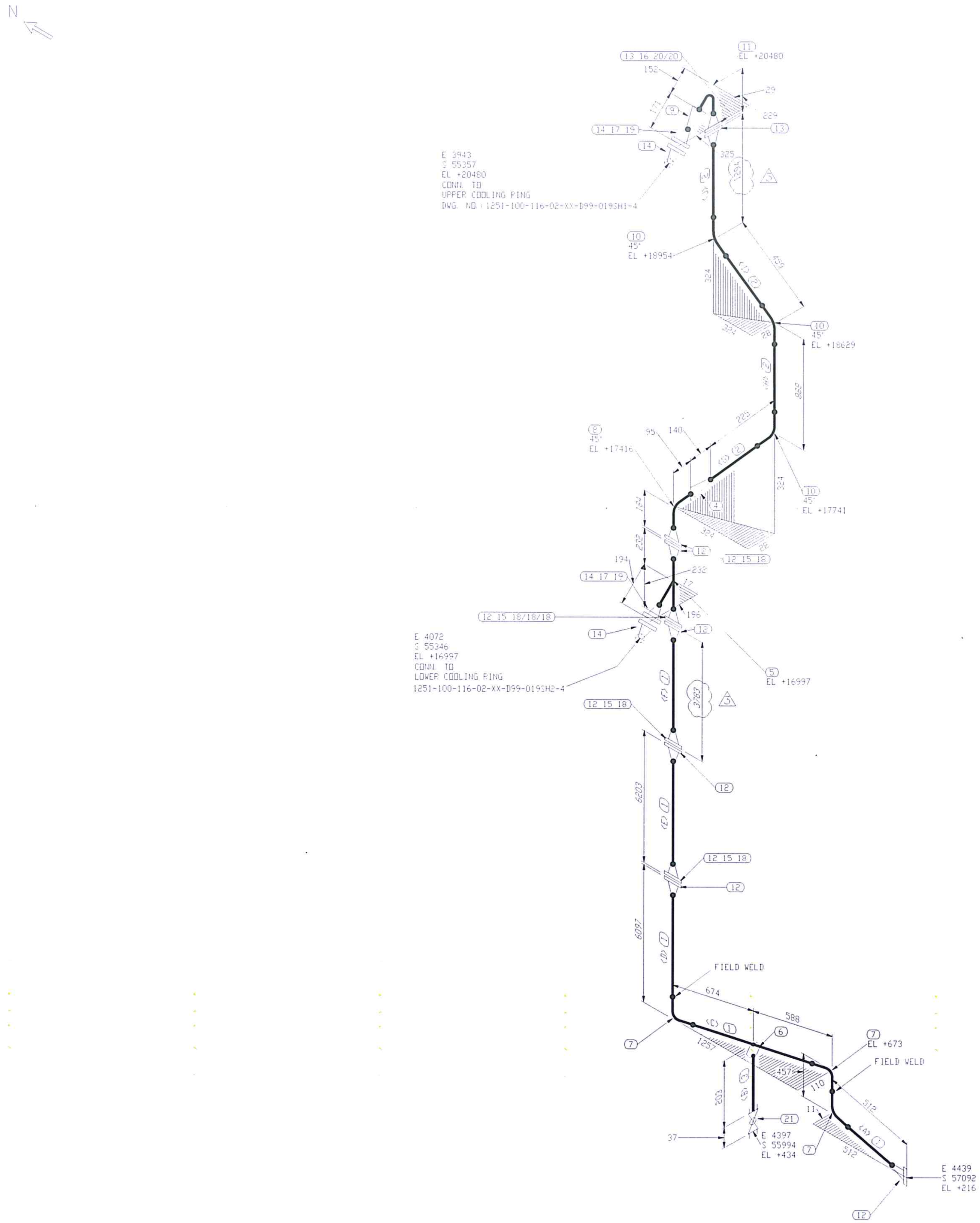
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03,
021-T-01/02/03/04, 022-T-01/02/03/04/05,
030-T-01/02/03/04, 031-T-01/02,
070-T-01/02/03/04/05/06
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-1

DIMS. IN mm / FORMAT A1	DRAWING NO.:	SHEET No	REVISION
	1251-100-116-02-XX-D99-021	1 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16408 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.4

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	195	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
<F>	3605	6
<G>	161	4
<H>	761	4
<I>	333	4
<J>	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

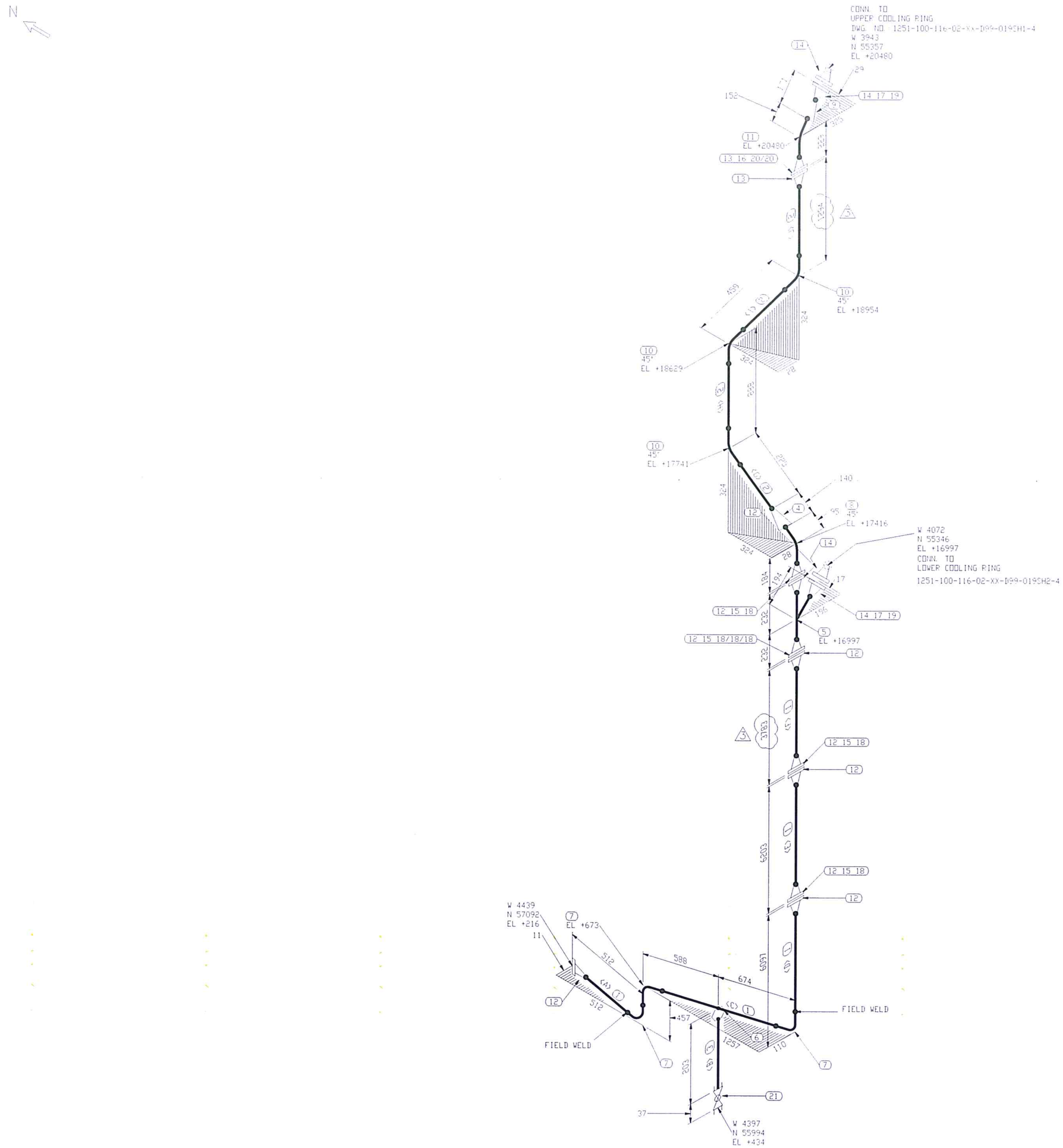
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03,
021-T-01/02/03/04, 022-T-01/02/03/04/05,
030-T-01/02/03/04, 031-T-01/02,
070-T-01/02/03/04/05/06
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-2

DIMS: IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	1251-100-116-02-XX-D99-021	2 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE. SMLS. SCH STD. ASTM A106 GR B	16408 MM	463.2
2	4	PIPE. SMLS. SCH STD. ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE. SMLS. SCH XS. ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC. SCH STD. ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED. SCH STD. ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET. BW. ASTM A105	1	0.1
7	6	90 LR ELL. SCH STD. ASTM A234 GR WPB	3	30.5
8	6	45 ELL. SCH STD. ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC. SCH STD. ASTM A234 GR WPB	1	1.9
10	4	45 ELL. SCH STD. ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL. SCH STD. ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK. 150LB. SCH STD. ASTM A105	9	106.2
13	4	FLG WELD NECK. 150LB. SCH STD. ASTM A105	2	15.0
14	3	FLG WELD NECK. 150LB. SCH STD. ASTM A105	4	20.4
15	6	GASKET. 150LB. 1/8" THK	4	1.8
16	4	GASKET. 150LB. 1/8" THK	1	0.5
17	3	GASKET. 150LB. 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS. 102 LG. ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS. 95 LG. ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS. 95 LG. ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE. THRD. 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.4

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	195	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
<F>	3605	6
<G>	161	4
<H>	761	4
<I>	333	4
<J>	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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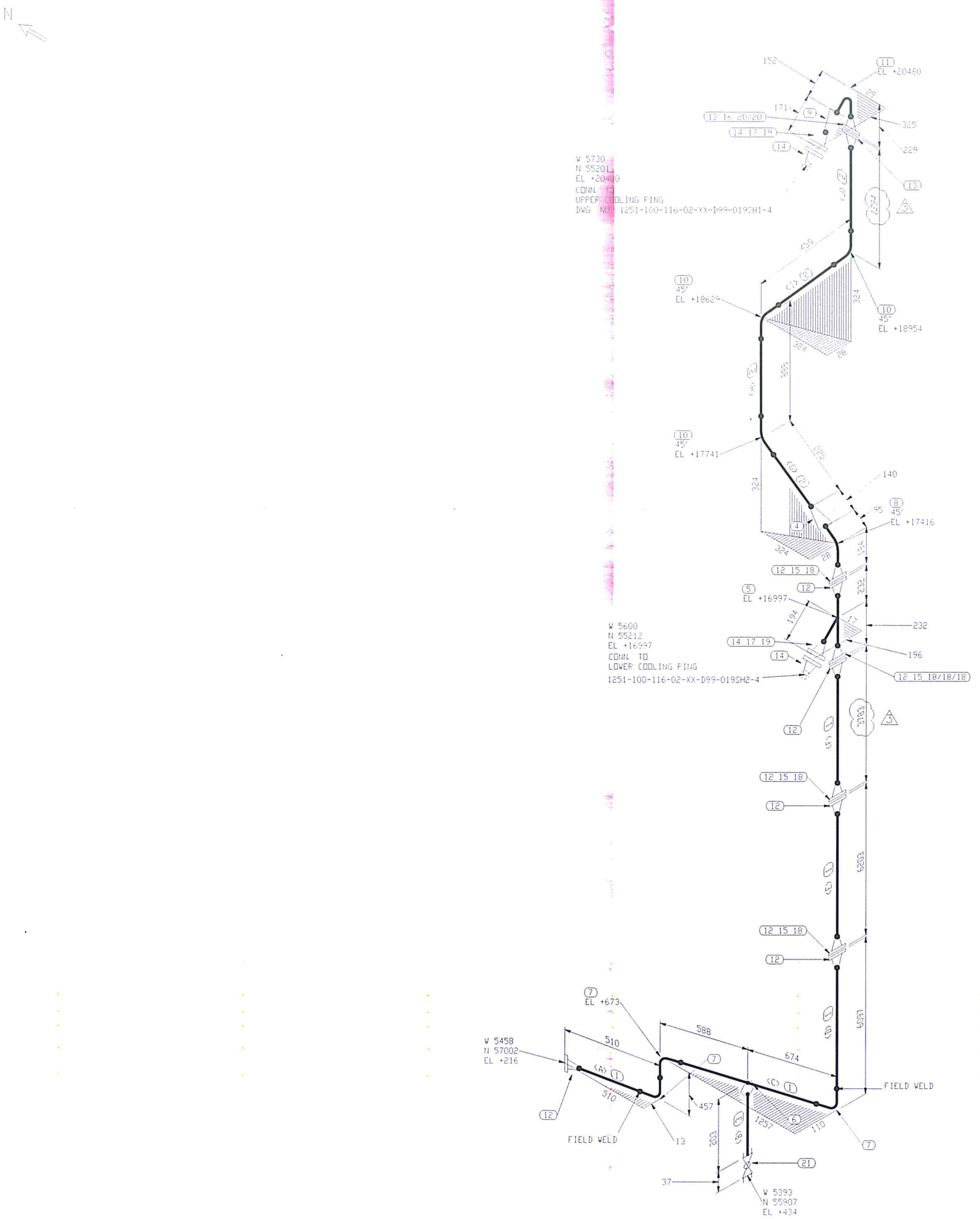
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-3

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	1251-100-116-02-XX-D99-021	3 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16405 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.3

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
(A)	192	6
(B)	100	1/2
(C)	804	6
(D)	5779	6
(E)	6025	6
(F)	3605	6
(G)	161	4
(H)	761	4
(I)	333	4
(J)	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

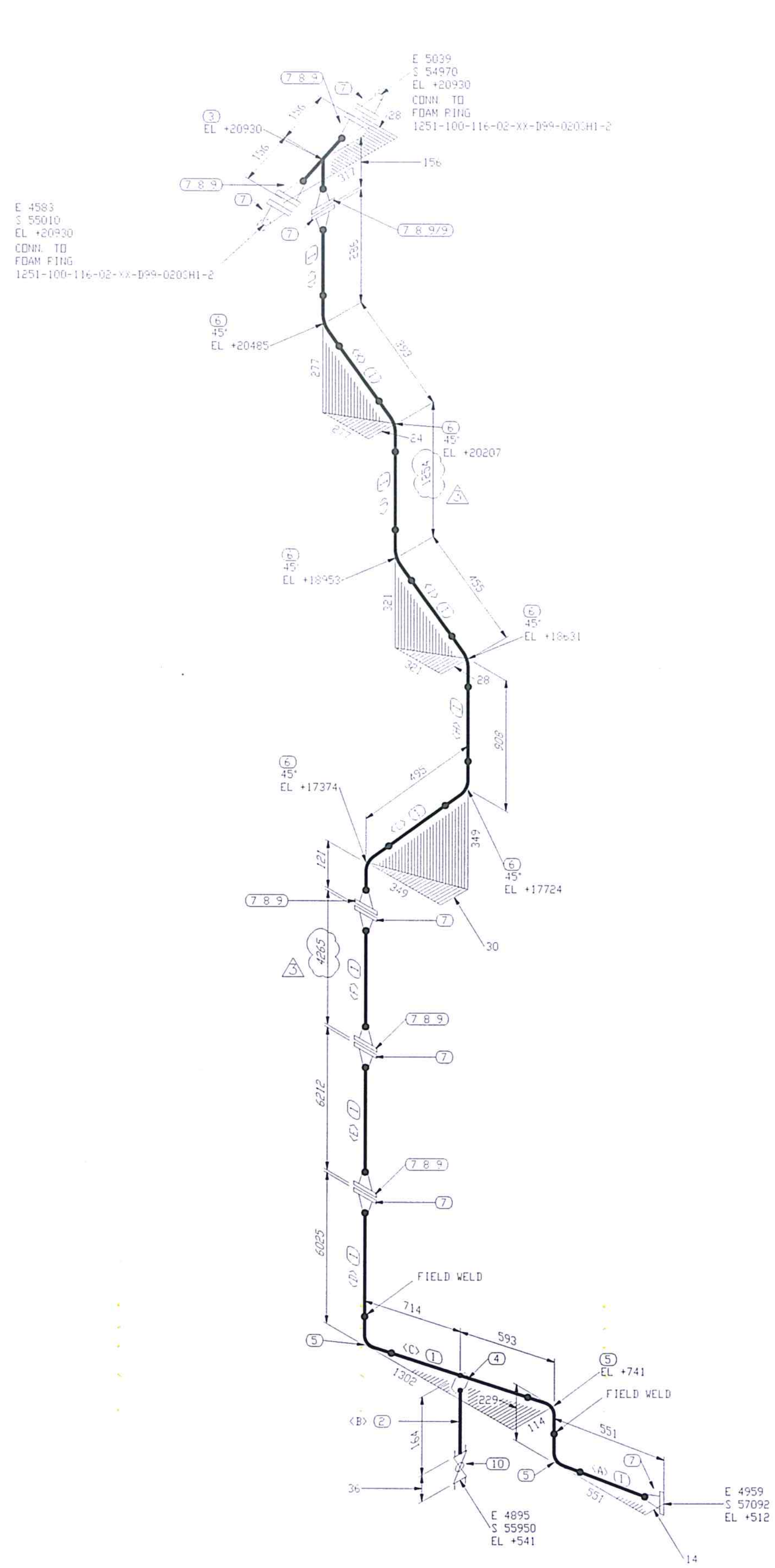
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-4

DIMS IN mm / FORMAT A1	DRAWING NO.:	SHEET No.	REVISION
	1251-100-116-02-XX-D99-021	4 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	20647 MM	232.7
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	13	66.3
8	3	GASKET, 150LB, 1/8" THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		321.0

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	366	3
<B>	100	1/2
<C>	1079	3
<D>	5841	3
<E>	6073	3
<F>	4125	3
<G>	393	3
<H>	807	3
<I>	354	3
<J>	1153	3
<K>	291	3
<L>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

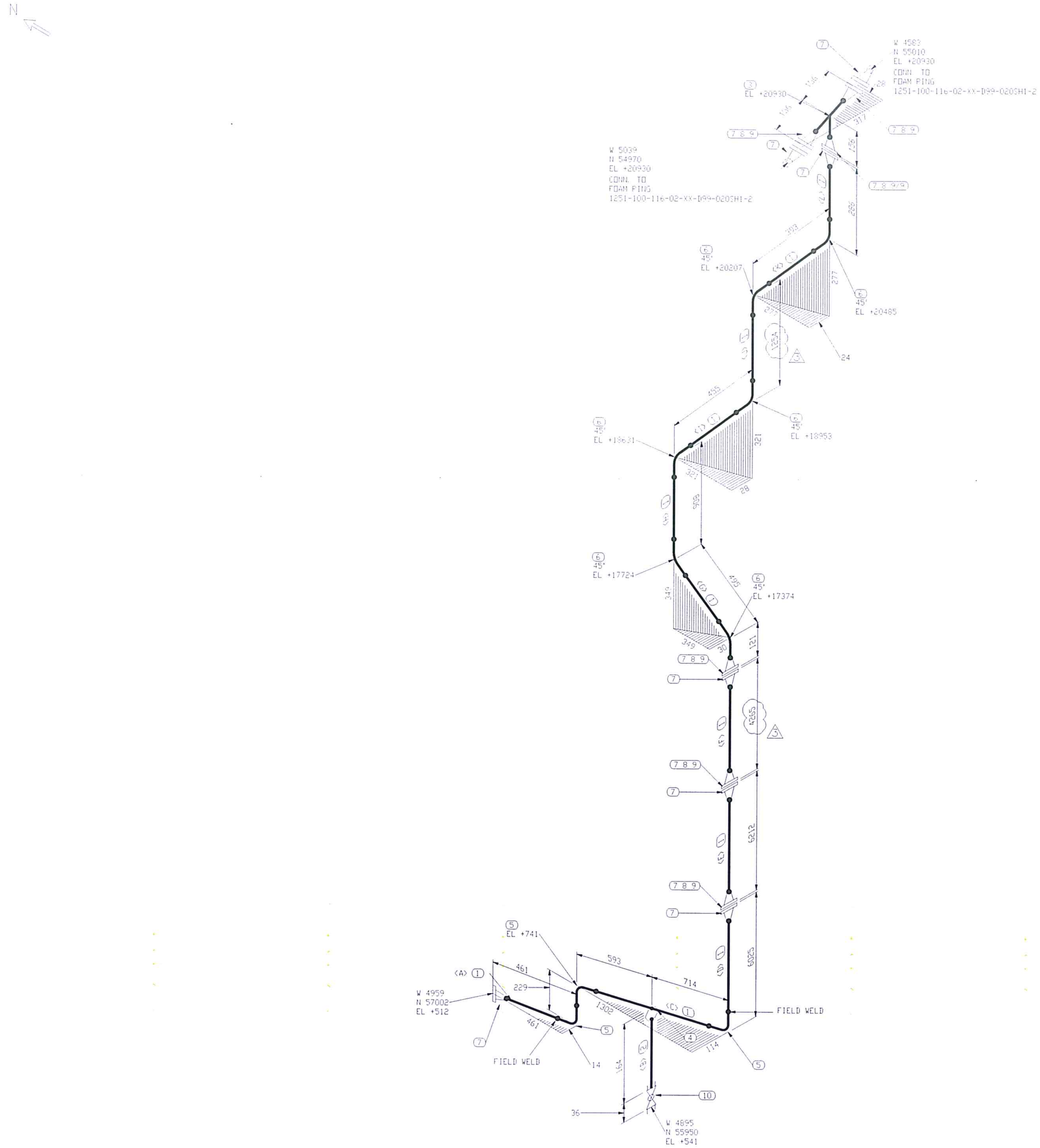
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03, 021-T-01/02/03/04, 022-T-01/02/03/04/05, 030-T-01/02/03/04, 031-T-01/02, 070-T-01/02/03/04/05/06

Water Spray/Foam System Piping Isometric Drawing
Foam Riser-1

DIMS IN mm	DRAWING NO.:	SHEET No	REVISION
FORMAT A1	1251-100-116-02-XX-D99-021	5 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	20557 MM	231.7
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	13	66.3
8	3	GASKET, 150LB, 1/8" THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		320.0

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	276	3
<B>	100	1/2
<C>	1079	3
<D>	5841	3
<E>	6073	3
<F>	4125	3
<G>	393	3
<H>	807	3
<I>	354	3
<J>	1153	3
<K>	291	3
<L>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

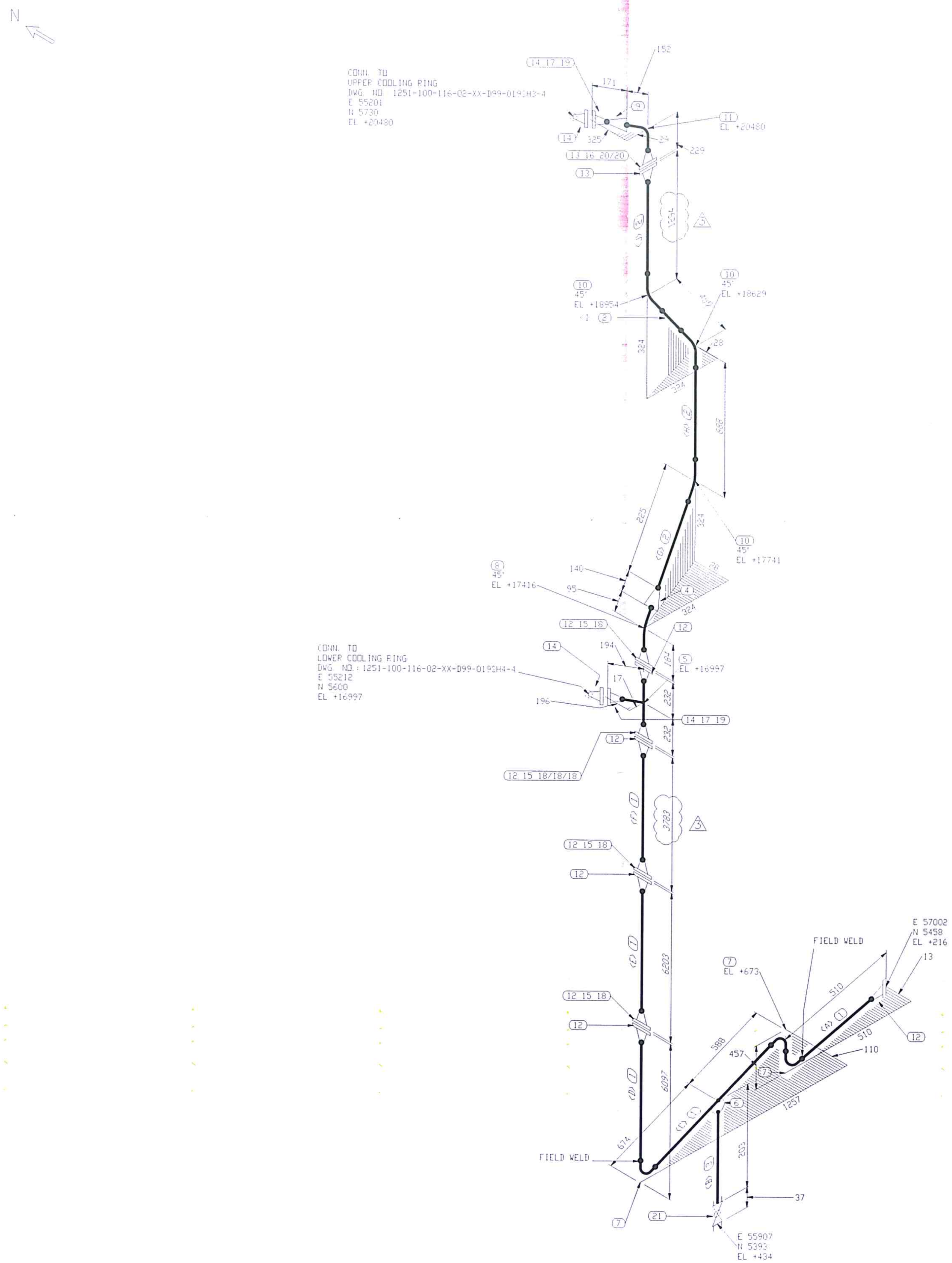
PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 010-T-01/02/03/04/05, 020-T-01/03,
021-T-01/02/03/04, 022-T-01/02/03/04/05,
030-T-01/02/03/04, 031-T-01/02,
070-T-01/02/03/04/05/06

Water Spray/Foam System Piping Isometric Drawing
Foam Riser-2

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT A1	1251-100-116-02-XX-D99-021	6 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE SMLS, SCH STD, ASTM A106 GR B	16405 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.3

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	192	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
<F>	3605	6
<G>	161	4
<H>	761	4
<I>	333	4
<J>	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

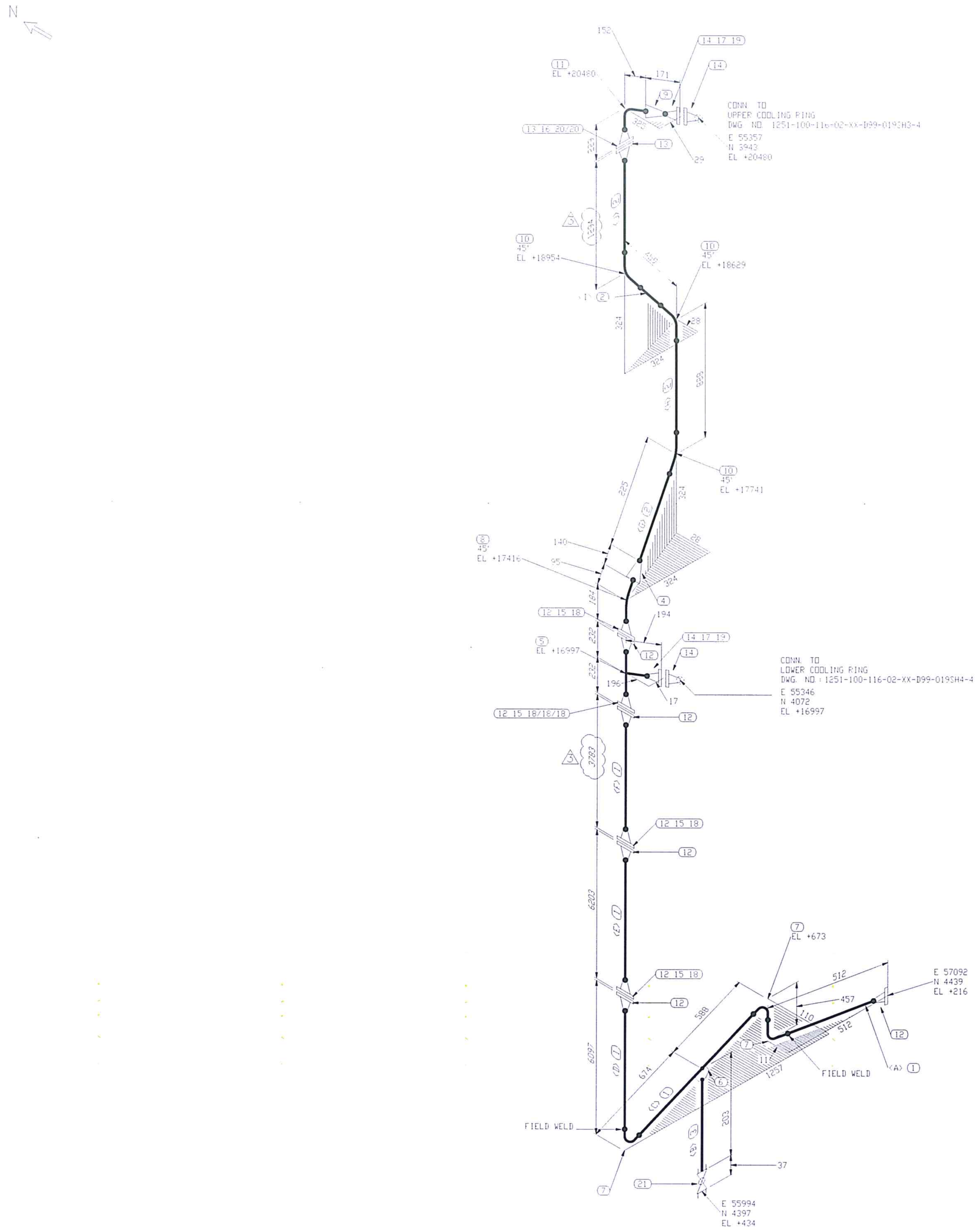
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-1

DIMS. IN mm / FORMAT A1	DRAWING NO.: 1251-100-116-02-XX-D99-021	SHEET No. 7 / 12	REVISION 3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS. SCH STD, ASTM A106 GR B	16408 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC. SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC. SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.4

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	195	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
<F>	3605	6
<G>	161	4
<H>	761	4
<I>	333	4
<J>	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

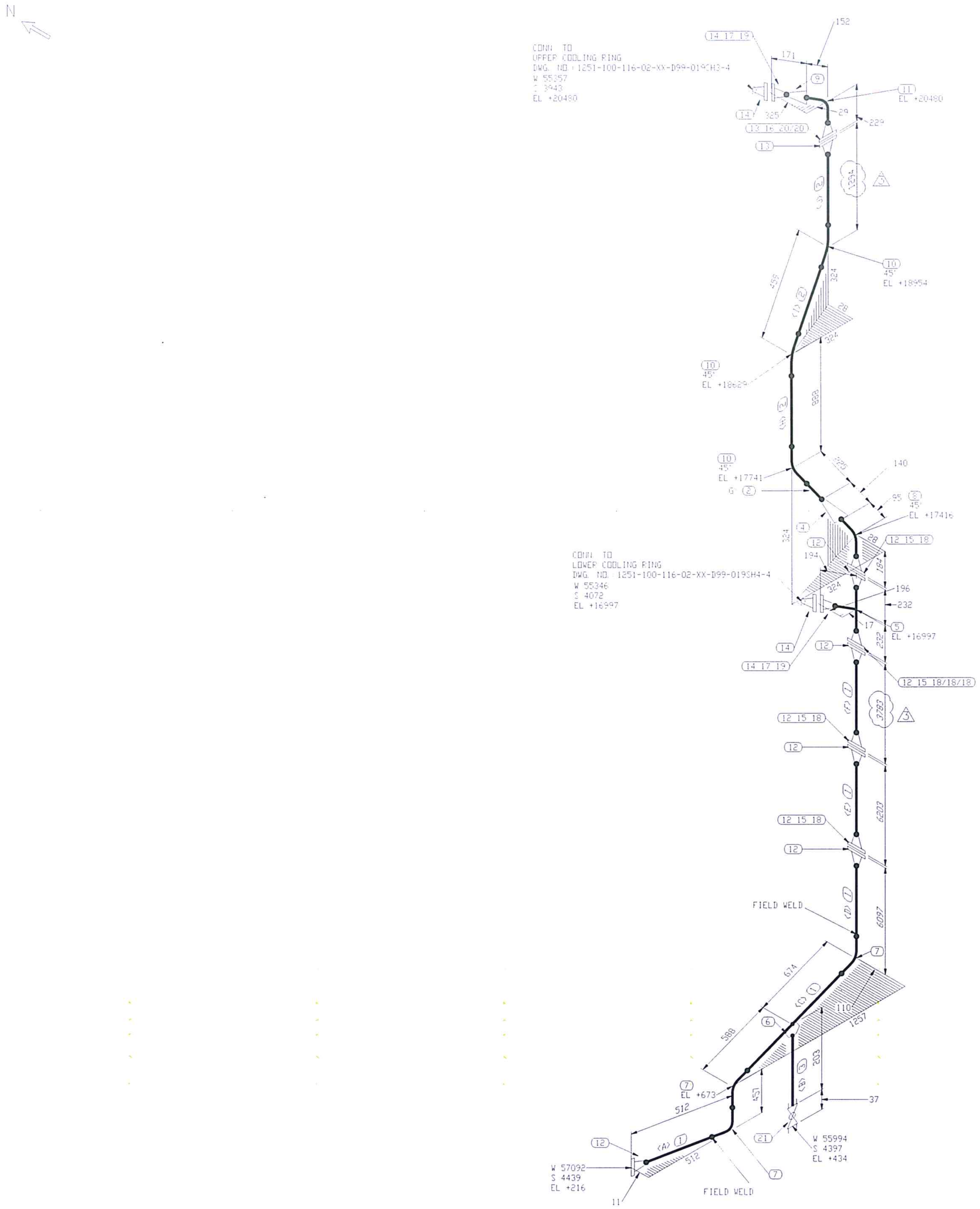
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-2

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	1251-100-116-02-XX-D99-021	8 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16408 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.4

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	195	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
<F>	3605	6
<G>	161	4
<H>	761	4
<I>	333	4
<J>	1154	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
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1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
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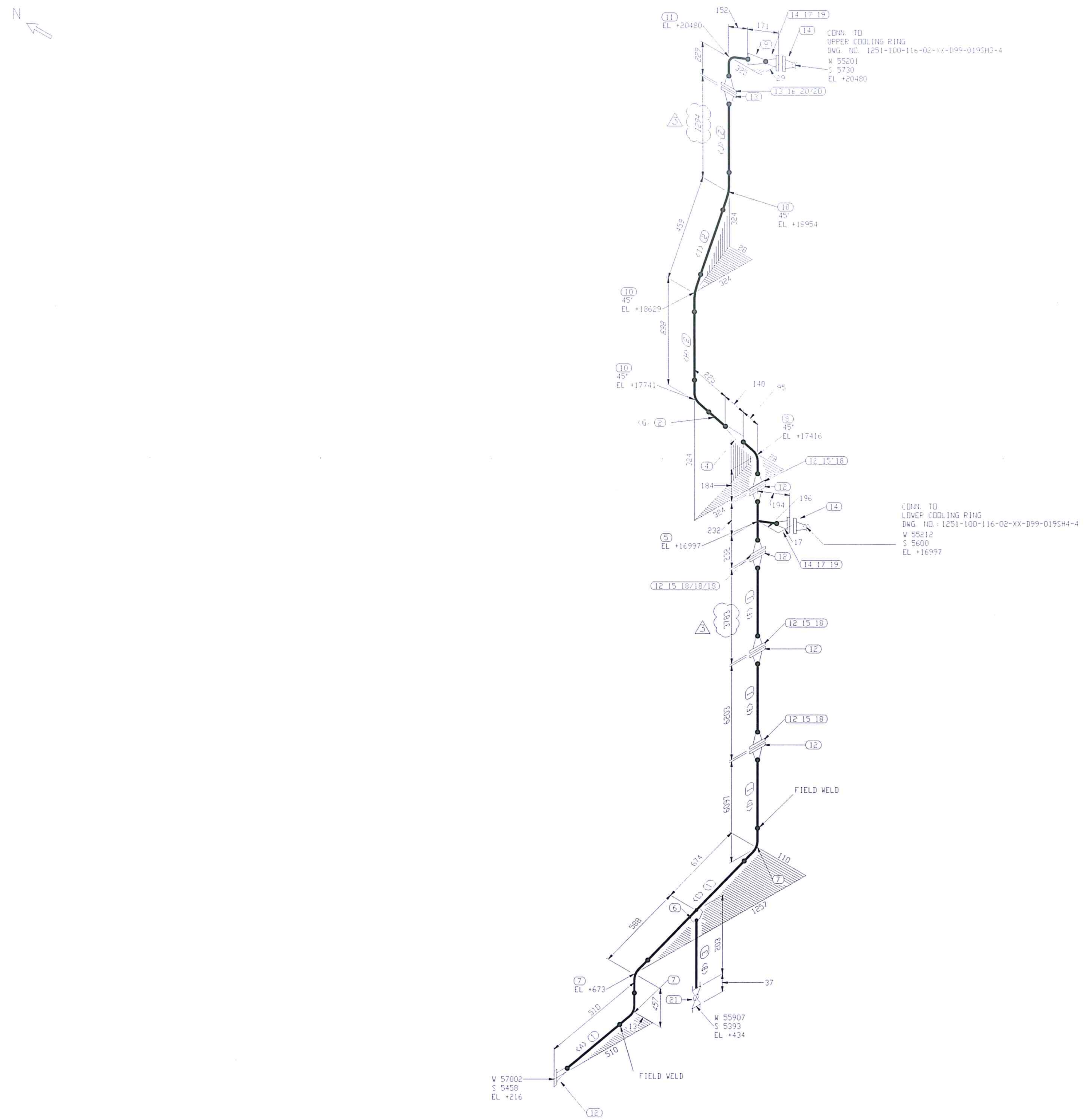
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing Cooling Riser-3

DIMS. IN mm / FORMAT A1	DRAWING NO.:	SHEET No.	REVISION
	1251-100-116-02-XX-D99-021	9 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16405 MM	463.2
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2409 MM	38.7
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC. SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED. SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC. SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	4	20.4
15	6	GASKET, 150LB, 1/8" THK	4	1.8
16	4	GASKET, 150LB, 1/8" THK	1	0.5
17	3	GASKET, 150LB, 1/8" THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	6	2.7
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		715.3

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	192	6
<B>	100	1/2
<C>	804	6
<D>	5779	6
<E>	6025	6
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GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
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1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
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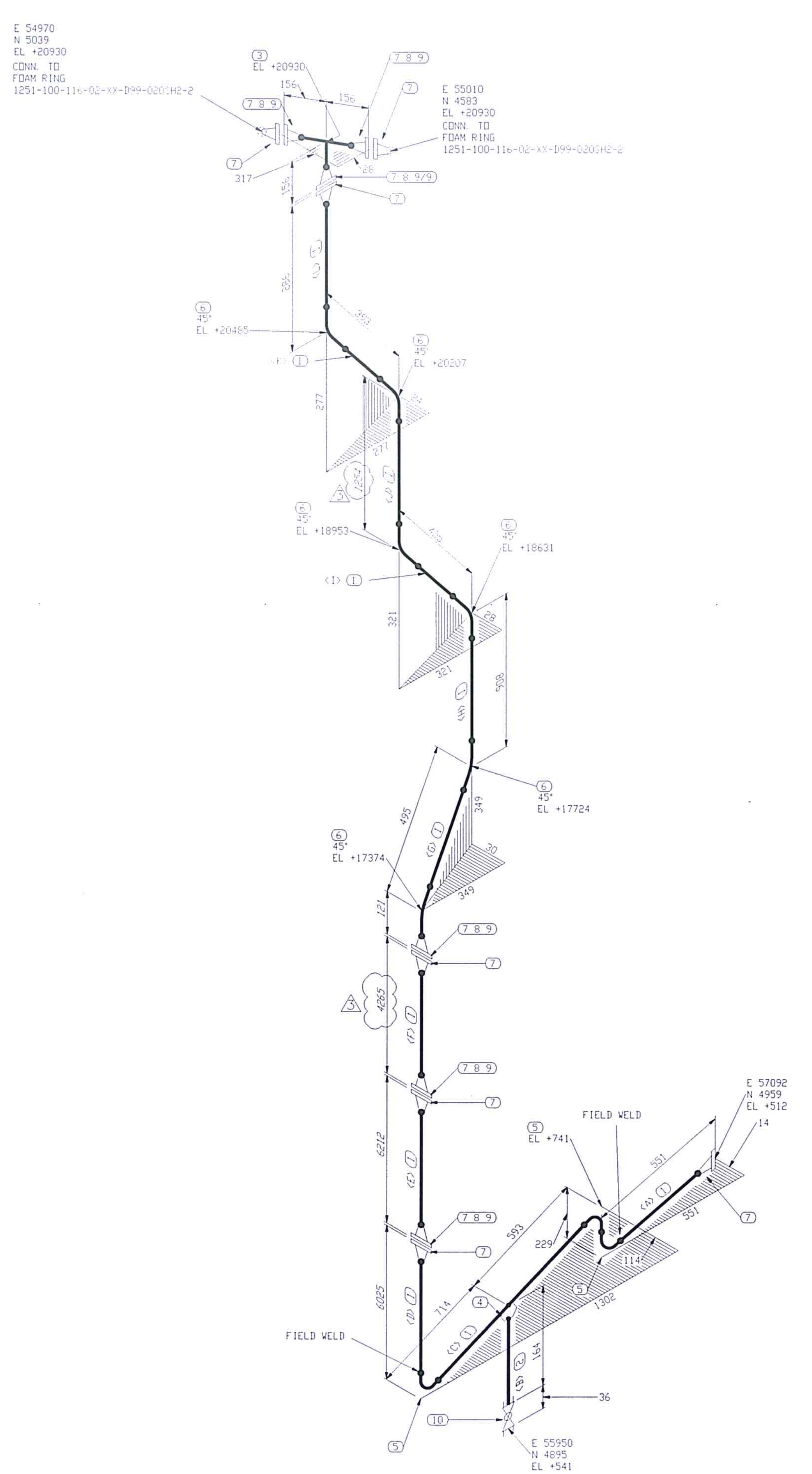
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-4

DIMS IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT A1	1251-100-116-02-XX-D99-021	10 / 12	3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	20647 MM	232.7
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	13	66.3
8	3	GASKET, 150LB, 1/8" THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		321.0

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	366	3
<B>	100	1/2
<C>	1079	3
<D>	5841	3
<E>	6073	3
<F>	4125	3
<G>	393	3
<H>	807	3
<I>	354	3
<J>	1153	3
<K>	291	3
<L>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

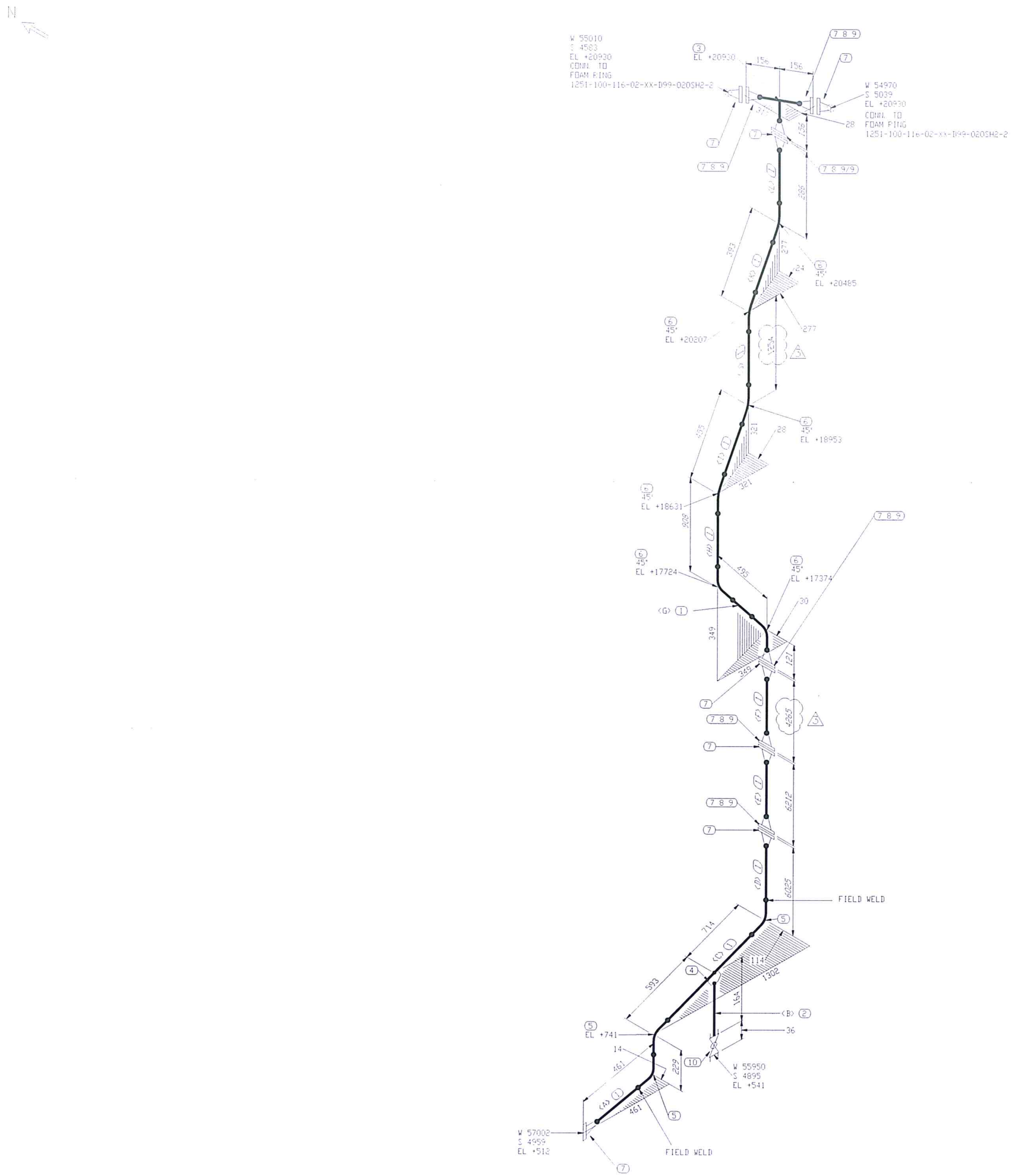
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing
Foam Riser-1

DIMS IN mm / FORMAT A1	DRAWING NO.: 1251-100-116-02-XX-D99-021	SHEET No. 11 / 12	REVISION 3



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	20557 MM	231.7
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	13	66.3
8	3	GASKET, 150LB, 1/8" THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		320.0

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	276	3
<B>	100	1/2
<C>	1079	3
<D>	5841	3
<E>	6073	3
<F>	4125	3
<G>	393	3
<H>	807	3
<I>	354	3
<J>	1153	3
<K>	291	3
<L>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
3	28/08/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
2	28/06/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
1	19/05/2020	ISSUED FOR CONSTRUCTION	A.YOUSSEF	M.HAWASH	M.A-RAZIK
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

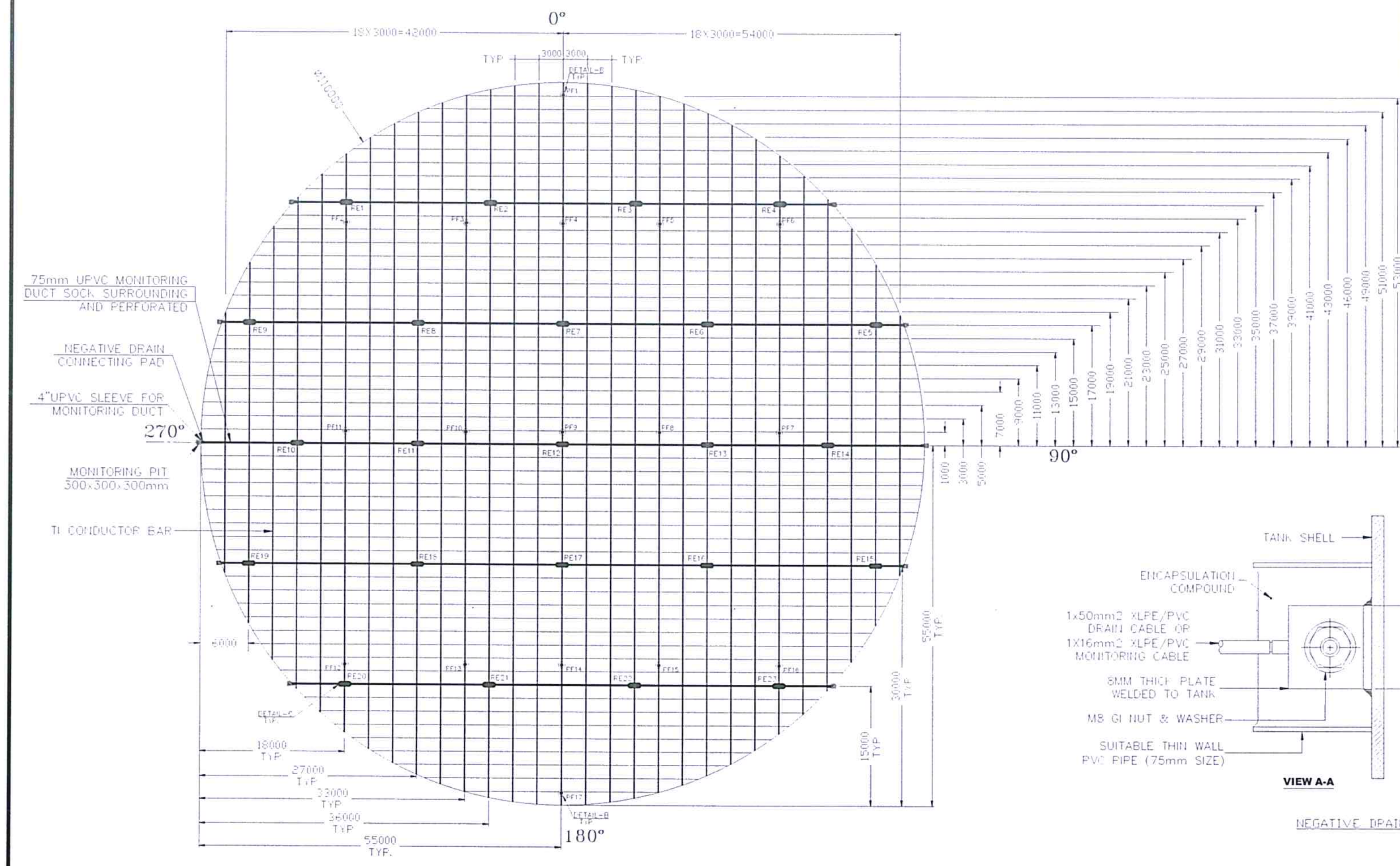
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD.1/2/3, AGROOD MOD.1/2, RAS GHARIB
CLIENT	EGPC

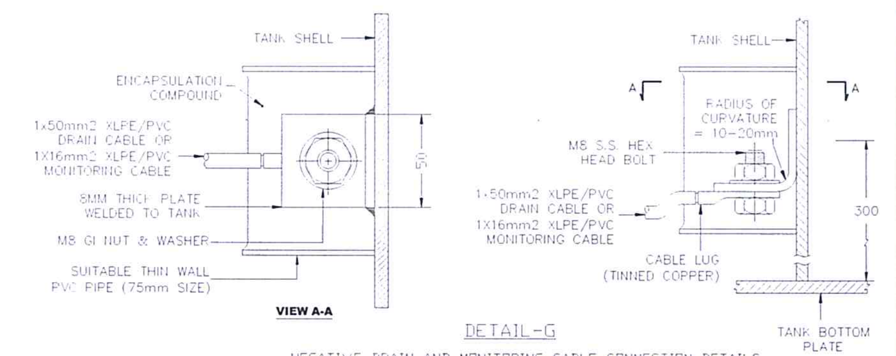
TANK I.D. 020-T-02
Water Spray/Foam System Piping Isometric Drawing
Foam Riser-2

DIMS. IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT A1	1251-100-116-02-XX-D99-021	12 / 12	3

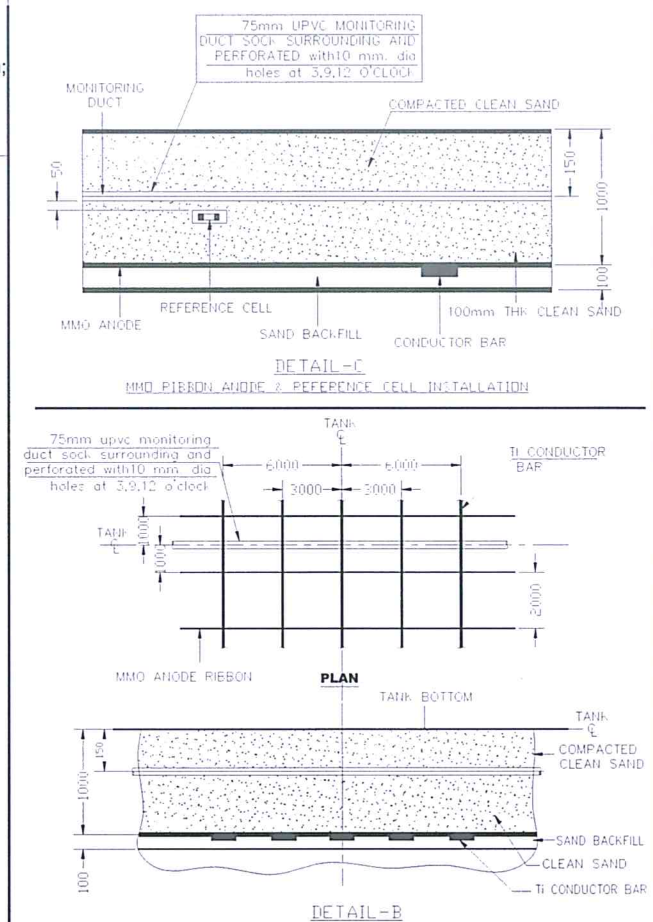


NOTES:-

To avoid clashes for the tank items below tank (including tank sump / piping) with anodes grid system; replica (model) for these items shall be installed prior to installation of the anode ribbons to ensure that the anodes system not clashing with any item.

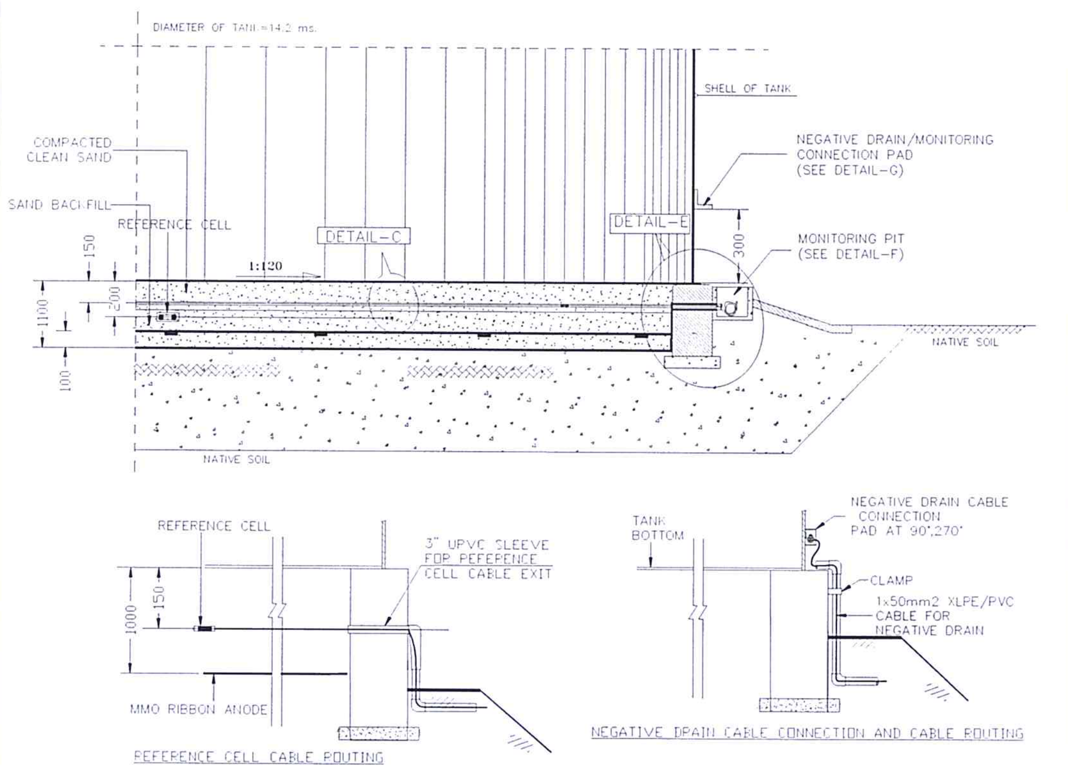


DETAIL-G
NEGATIVE DRAIN AND MONITORING CABLE CONNECTION DETAILS



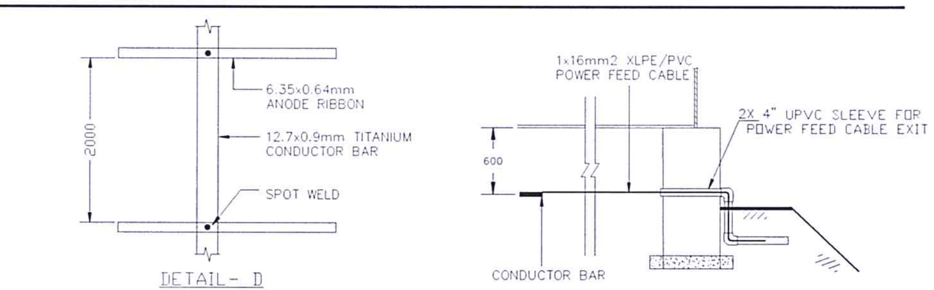
DETAIL-C
MMO RIBBON ANODE & REFERENCE CELL INSTALLATION

DETAIL-B
MMO RIBBON ANODE & MONITORING DUCT (MD2) INSTALLATION DETAILS BELOW THE TANK BOTTOM



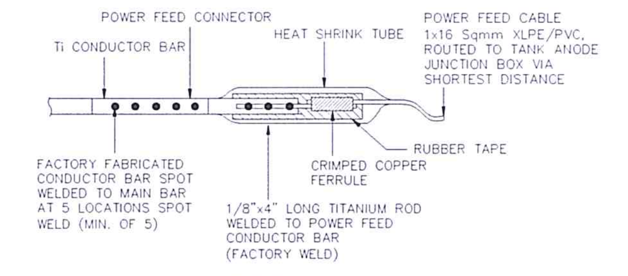
REFERENCE CELL CABLE ROUTING

NEGATIVE DRAIN CABLE CONNECTION AND CABLE ROUTING

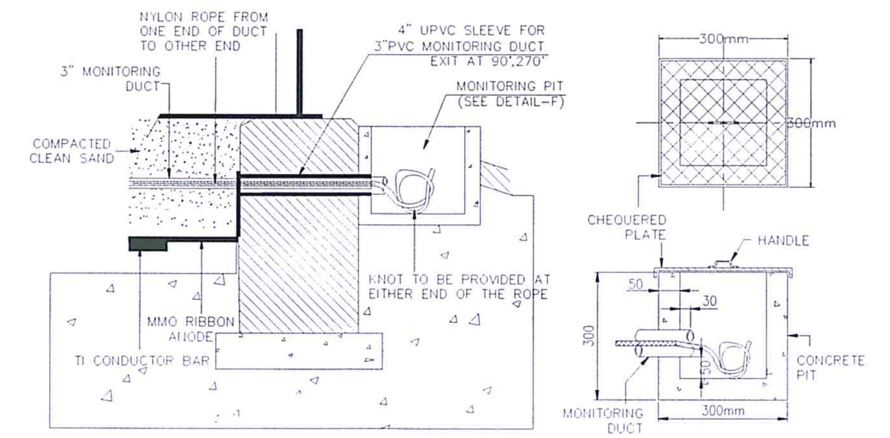


DETAIL- D
ANODE RIBBON TO CONDUCTOR BAR CONNECTION

POWER FEED CABLE ROUTING



DETAIL-A
POWER FEED TO CONDUCTOR BAR CONNECTION



DETAIL-E
MONITORING CONDUIT DETAILS

DETAIL-F
CONCRETE MONITORING PIT

REV.	DATE	DESCRIPTION	DRAWN	DESIGN	CHECK	APPR.
2	30-09-2019	ISSUED FOR CONSTRUCTION	Ramadan	A. SAAD	H. ALY	A. RAGAB
1	19-09-2019	ISSUED FOR CONSTRUCTION	Ramadan	A. SAAD	H. ALY	A. RAGAB
0	29-08-2019	ISSUED FOR APPROVAL	Ramadan	A. SAAD	H. ALY	A. RAGAB

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THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

بتروجت
شركة المشروعات البترولية و الاستشارات الفنية
القاهرة - ج م ع

PROJECT : EGPC CRUDE OIL TANK FARM

CLIENT : ENPPI / EGPC

EXTERNAL CATHODIC PROTECTION SYSTEM DRAWING FOR CRUDE OIL STORAGE TANKS

DIMS. IN mm / NOT TO SCALE	DWG. NO.: 1251-100-116-02-XX-D99-022	SHEET No. 1/1	REVISION 2

Enppi

SUPPLIER'S DOCUMENT COVER PAGE (FOR A4/A3 DOCUMENTS ONLY)

SUPPLIER'S NAME :	Petrojet
PURCHASE ORDER No :	01251-100-116-2-Q
DOCUMENT TITLE :	External Cathodic Protection Permanent Reference Electrode Installation drawing for Crude Oil Storage Tanks
TOTAL No OF PAGES :	Cover +1
SUPLLIER'S ORDER No :	

SUPPLIER'S OWN DOCUMENT No	SUPPLIER'S REVISION	DATE	SUPPLIER APPROVAL SIGNATURE
2019/CRUDE OIL-All Tank-30-Z-4-CP-02	0	010., 9 2019	Magdy
	1	18/9/2019	Magdy

SUPPLIER DOCUMENT REVIEW

PERMISSION TO PROCEED DOES NOT CONSTITUTE ACCEPTANCE OR APPROVAL OF DESIGN DETAILS, CALCULATIONS, ANALYSIS, TEST METHODS OR MATERIALS DEVELOPED OR SELECTED BY SUPPLIER FROM FULL COMPLIANCE WITH CONTRACTUAL OBLIGATIONS.

Code 1

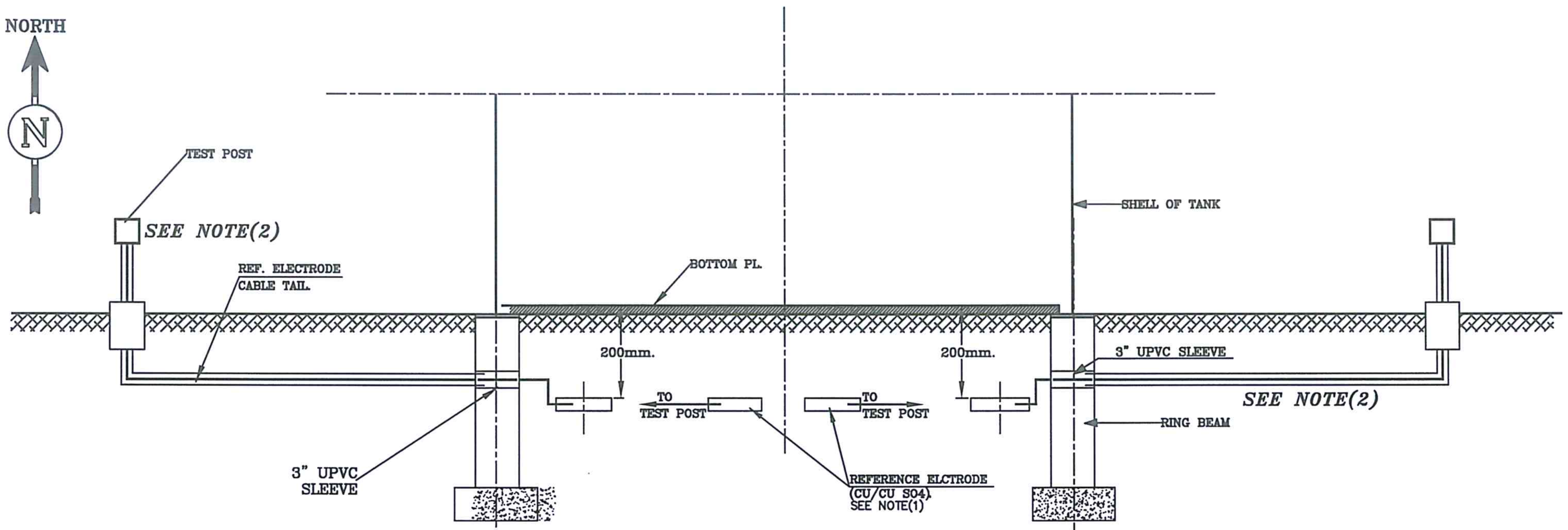
- ■ 1. WORK MAY PROCEED.
- ○ 2. REVISE AND RESUBMIT IN ACCORDANCE WITH COMMENTS, WORK MAY PROCEED SUBJECT TO INCORPORATION OF CHANGES INDICATED.
- ○ 3. REVISE AND RESUBMIT, (MAJOR COMMENTS) WORK MAY NOT PROCEED.
- ○ 4. REJECTED, (REASON TO BE SPECIFIED ON THE DOCUMENT).
- ○ 5. HOLD FOR A SPECIFIC REASON (TO BE SPECIFIED ON THE DOCUMENT).

NAME: *Ahmed Kamal Abu ElMagd*

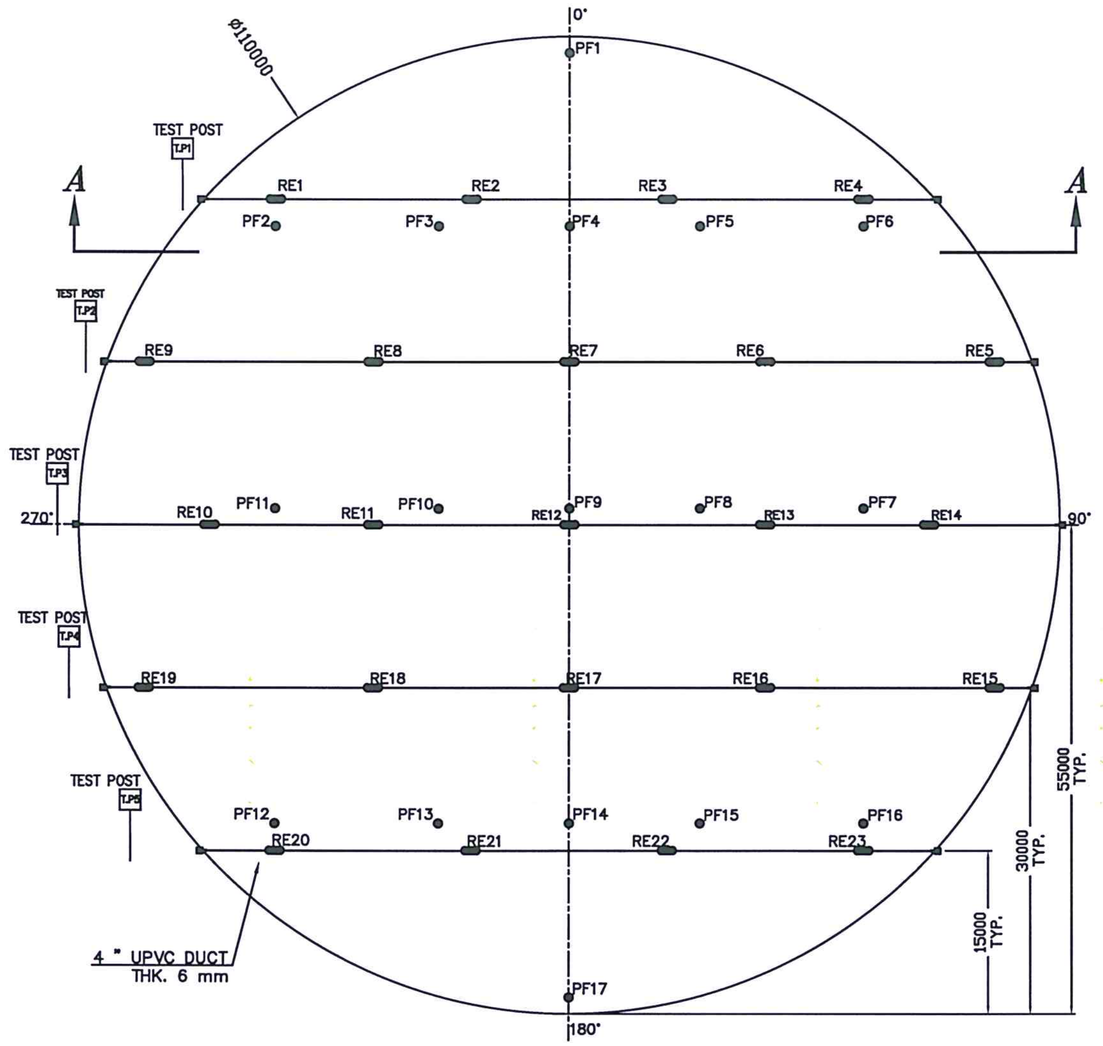
SIGNATURE: DATE : *Sept. 26, 2019*

PROJECT TITLE	:	EGPC Crude Oil Tank Farm
ENPPI PROJECT NUMBER	:	01251-100
PACKAGE DESCRIPTION	:	Crude Oil Storage Tank
EQUIPMENT TAG	:	XX-T-01/2/3/4 -All Tank
CODE IDENTIFIER	:	D99

DOCUMENT NUMBER	REV
1251-100-116-02-XX-D99-023	0



SECTION ELEVATION A-A.



PLAN OF RING BEAM

NOTES:-

1) THIS REFERENCE ELECTRODE IS USED ONLY DURING COMMISSIONING TO MEASURE THE POTENTIAL DROP AGAINST THE SECOND ELECTRODE.
2) TEST POST WILL BE INSTALLED AT ABOUT 5mt.
3) ANY CLASHES SHALL BE AVOIDED AT SITE DURING INSTALLATION.

REV.	DATE	DESCRIPTION	DRAWN	DESIGN	CHECK	APPR.
1	19-09-2019	ISSUED FOR CONSTRUCTION	Ramadan	A. SAAD	H. ALY	A. RAGAB
0	29-08-2019	ISSUED FOR APPROVAL	Ramadan	A. SAAD	H. ALY	A. RAGAB

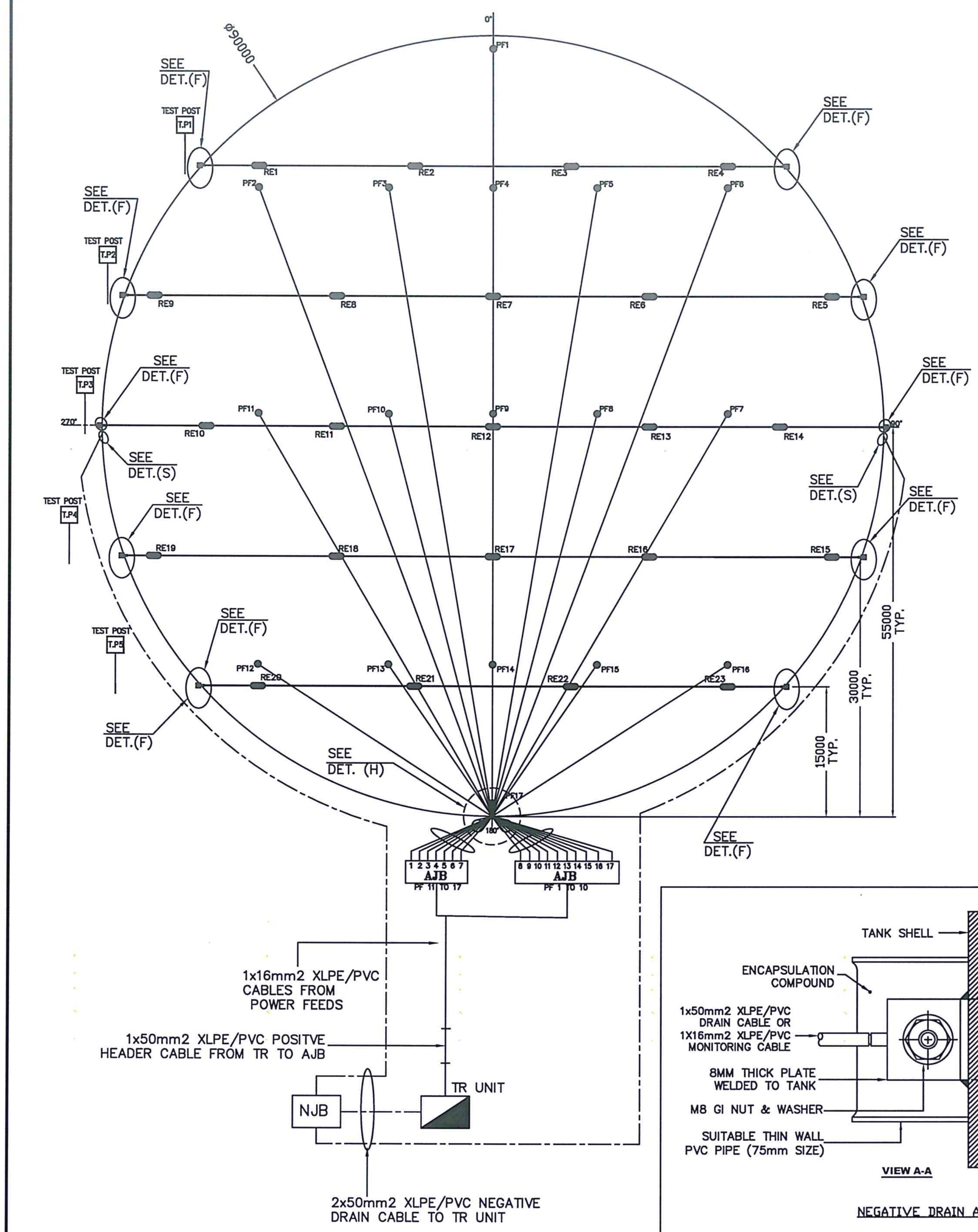
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CAIRO A.R.E

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شركة المشروعات البترولية و الاستشارات الفنية
القاهرة - ج.م.ع

PROJECT : EGPC CRUDE OIL TANK FARM
:
CLIENT : ENPPI / EGPC

EXTERNAL CATHODIC PROTECTION PERMANENT REFERENCE ELECTRODE INSTALLATION DRAWING FOR CRUDE OIL STORAGE TANKS

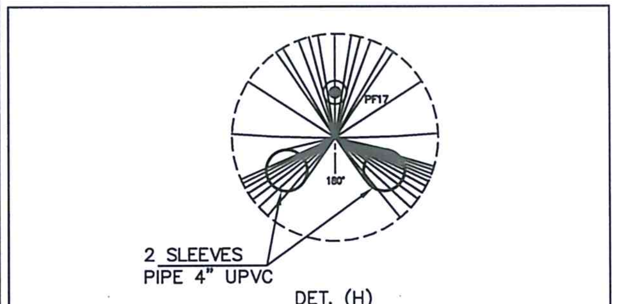
DIMS. IN mm NOT TO SCALE	DWG. NO.: 1251-100-116-02-XX-D99-023	SHEET No. 1/1	REVISION 1

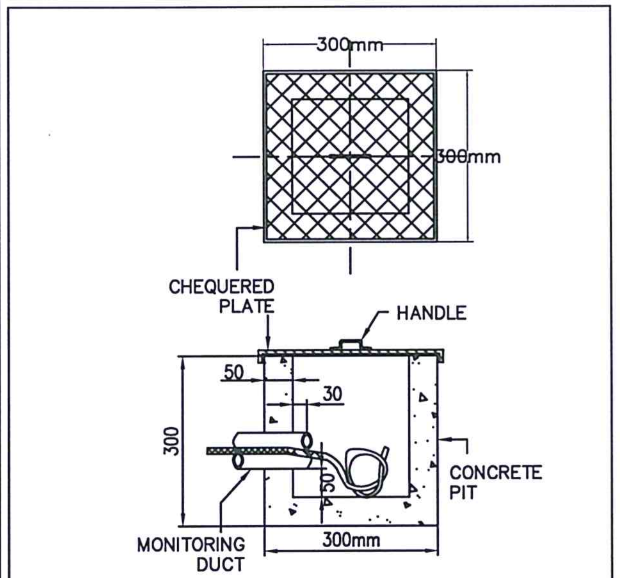


NOTE:

- TR UNIT – TRANSFORMER RECTIFIER UNIT
- AJB – ANODE JUNCTION BOX
- TP(1 TO 5)– TEST POST
- PF(1 TO 17)– POWER FEEDS
- RE(1 TO 23)– REFERENCE ELECTRODE
- ——— POSITIVE HEADER CABLE.
- —-— NEGATIVE HEADER CABLE.
- TR UNIT – TRANSFORMER RECTIFIER UNIT

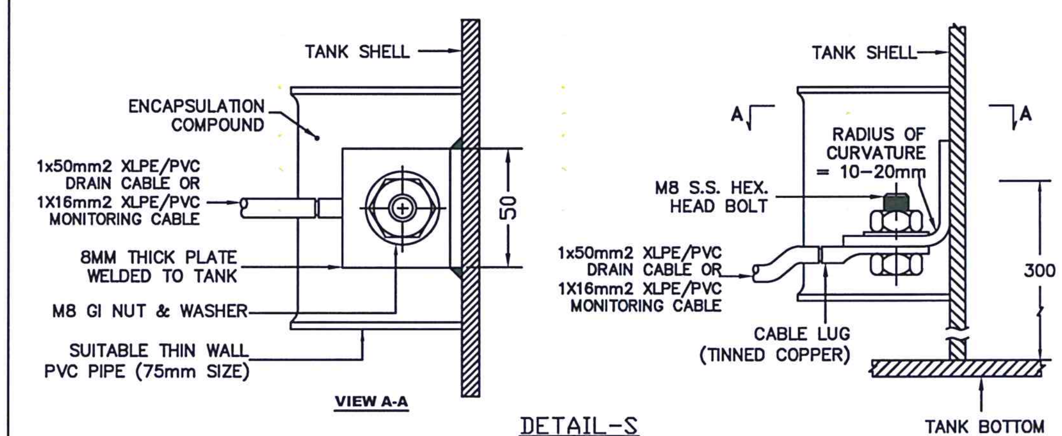
– ANY CLASHES SHALL BE AVOIDED AT SITE DURING INSTALLATION.





DETAIL-F

CONCRETE MONITORING PIT



DETAIL-S

NEGATIVE DRAIN AND MONITORING CABLE CONNECTION DETAILS

REV.	DATE	DESCRIPTION	DRAWN	DESIGN	CHECK	APPR.
1	19-09-2019	ISSUED FOR CONSTRUCTION	Ramadan	A. SAAD	H. ALY	A. RAGAB
0	29-08-2019	ISSUED FOR APPROVAL	Ramadan	A. SAAD	H. ALY	A. RAGAB

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

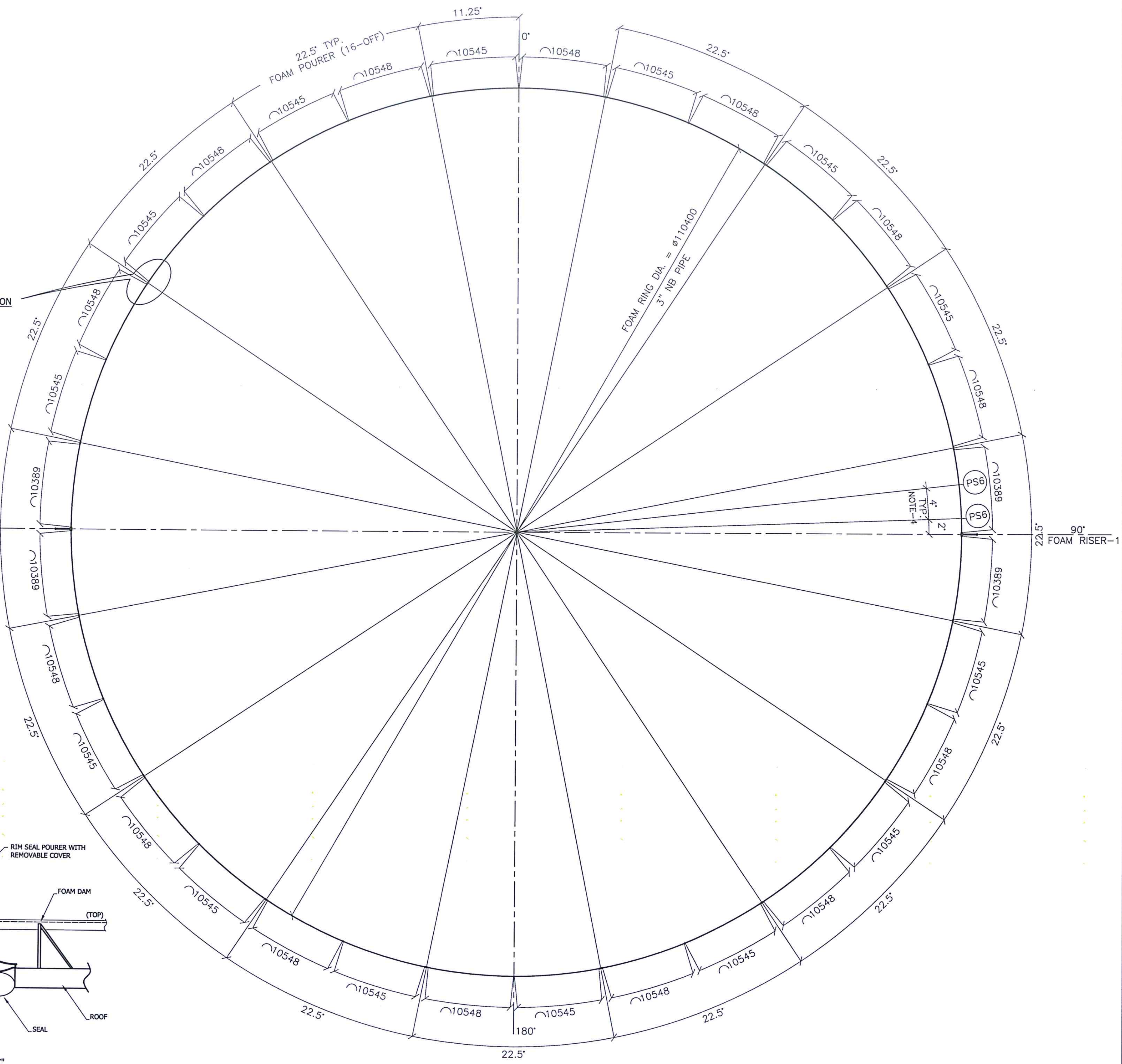
بتروجت
شركة المشروعات البترولية و الاستشارات الفنية
القاهرة - ج.م.ع

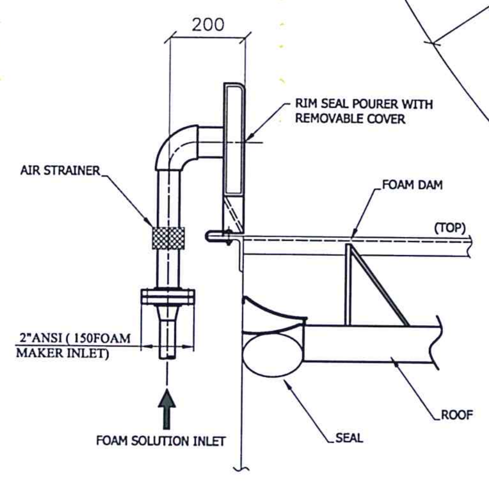
PROJECT : EGPC CRUDE OIL TANK FARM

CLIENT : ENPPI / EGPC

EXTERNAL CATHODIC PROTECTION SCHEMATIC LAYOUT FOR CRUDE OIL STORAGE TANKS

DIMS. IN mm NOT TO SCALE	DWG. NO.: 1251-100-116-02-XX-D99-024	SHEET No. 1/1	REVISION 1





DETAIL "Z"
NTS

REFERENCE DRAWINGS

DWG N°	DESCRIPTIONS
2019/CRUDE OIL-ALL TANK-30-D-3-FF-03	WATER SPRAY/FOAM SYSTEM SUPPORT DETAILS
2019/CRUDE OIL-ALL TANK-30-D-3-FF-04	WATER SPRAY/FOAM SYSTEM SUPPORT ARRANGEMENT/DETAIL
2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	WATER SPRAY/FOAM SYSTEM PIPING ISOMETRIC DRAWINGS

BILL OF MATERIAL

Sr.	QTY	SIZE (Inch)	DESCRIPTION
1	12m	2	PIPE, SMLS, SCH STD, ASTM A106 GR B
2	360m	3	BENT PIPE, SMLS, SCH STD, ASTM A106 GR B
3	16	3X2	TEE RED, SCH STD, ASTM A234 GR WPB
4	48	2	FLG WELD NECK, 150LB, SCH STD, ASTM A105
5	96	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105
6	16	2	FOAM POURER, 2", 150LB,RF FLANGED INLET SIZE
7	32	5/8	(4) STUD BOLTS W/ NUTS, 83 LG, ASTM A193/194 GR B7/2H
8	46	5/8	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H
9	32	2	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.
10	46	3	GASKET, 150LB, Spiral Wound, 4.5mm Thk. Flexible Graphite filler, 316SS winding, Inner ring & Gage outer ring.

GENERAL NOTES

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.

2- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

3- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH REFERENCE DRAWINGS.

4- REFER TO DWG. N0. FF-03 FOR SUPPORTS DETAILS AND QUANTITIES.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

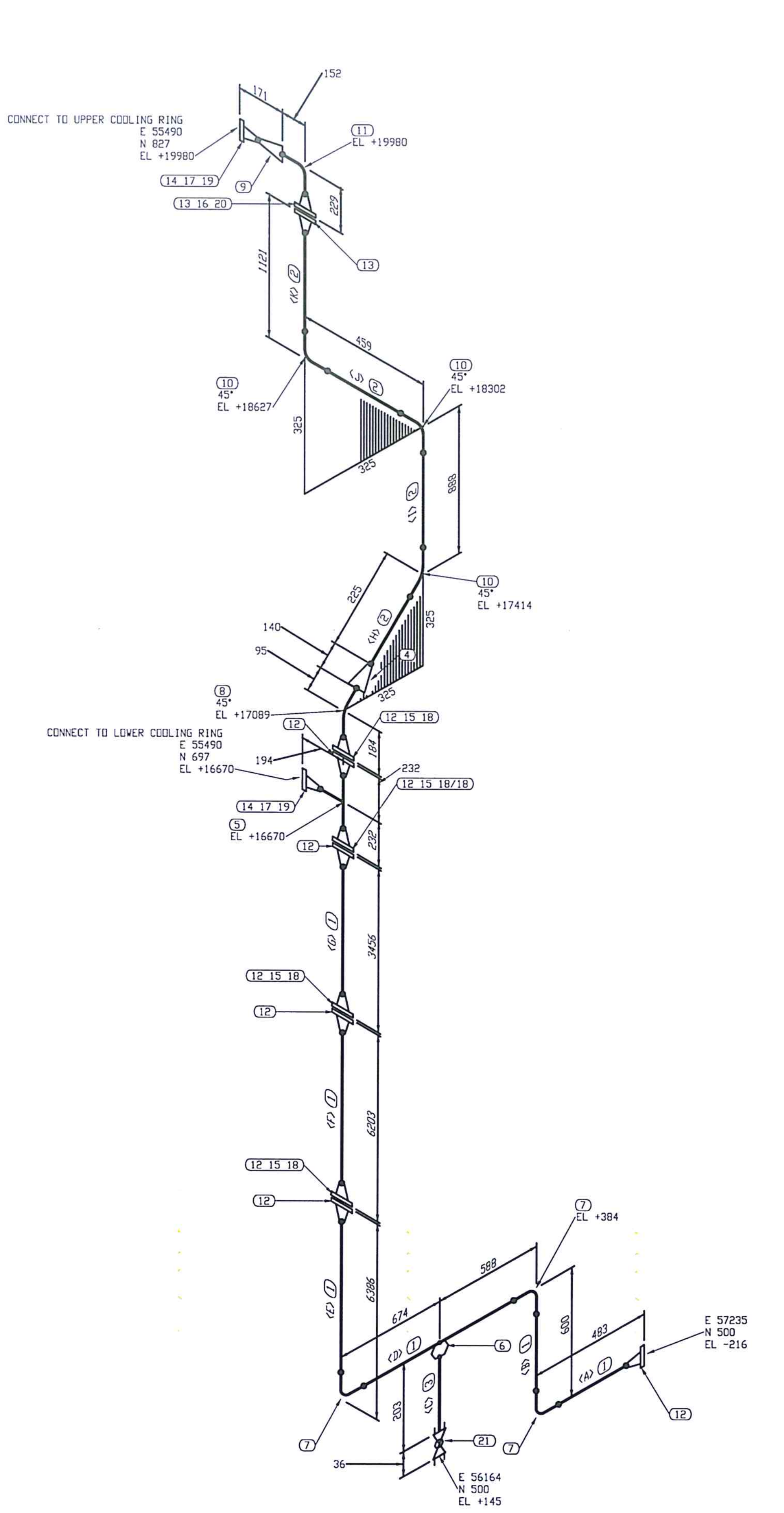
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04, 021-T-01/02/03/04, 030-T-01/02/03/04, 031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03, & 060-T-01/02/03
Foam Ring Detail

DIMS :IN mm / FORMAT :A1	DRAWING NO.: 2019/CRUDE OIL-ALL TANK-30-D-3-FF-06	SHEET No. 1 / 1	REVISION 0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16483 MM	465.4
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2238 MM	36.0
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	10.2
15	6	GASKET, 150LB, 1/8' THK	4	1.8
16	4	GASKET, 150LB, 1/8' THK	1	0.5
17	3	GASKET, 150LB, 1/8' THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	5	2.3
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	1	0.5
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		703.7

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	165	6
<B>	142	6
<C>	100	1/2
<D>	805	6
<E>	6068	6
<F>	6025	6
<G>	3278	6
<H>	161	4
<I>	762	4
<J>	333	4
<K>	982	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

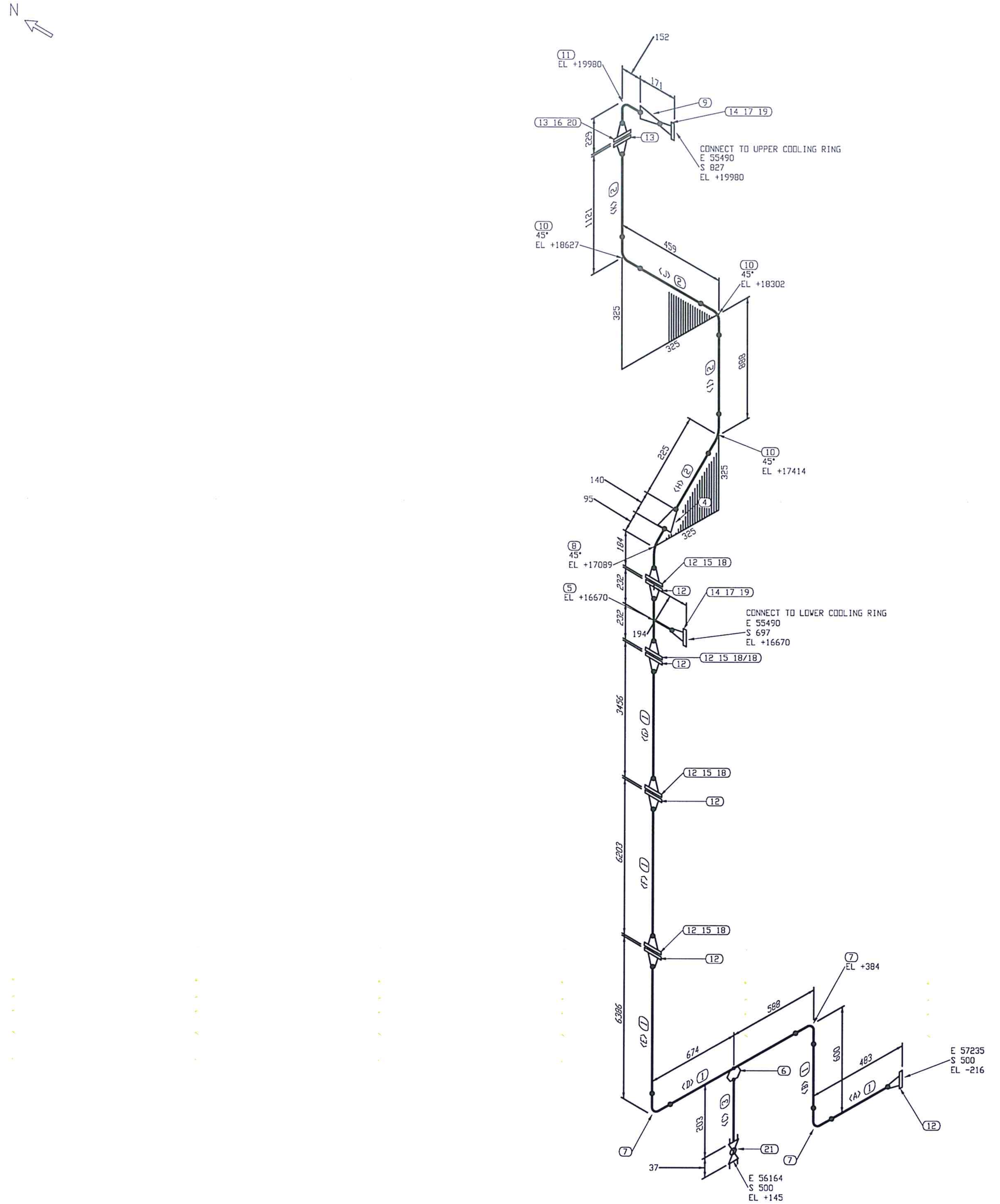
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ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04, 021-T-01/02/03/04, 030-T-01/02/03/04, 031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03, & 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-1

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	1 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16483 MM	465.4
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2238 MM	36.0
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	10.2
15	6	GASKET, 150LB, 1/8' THK	4	1.8
16	4	GASKET, 150LB, 1/8' THK	1	0.5
17	3	GASKET, 150LB, 1/8' THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	5	2.3
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	1	0.5
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		703.7

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	165	6
<B>	142	6
<C>	100	1/2
<D>	805	6
<E>	6068	6
<F>	6025	6
<G>	3278	6
<H>	161	4
<I>	762	4
<J>	333	4
<K>	982	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

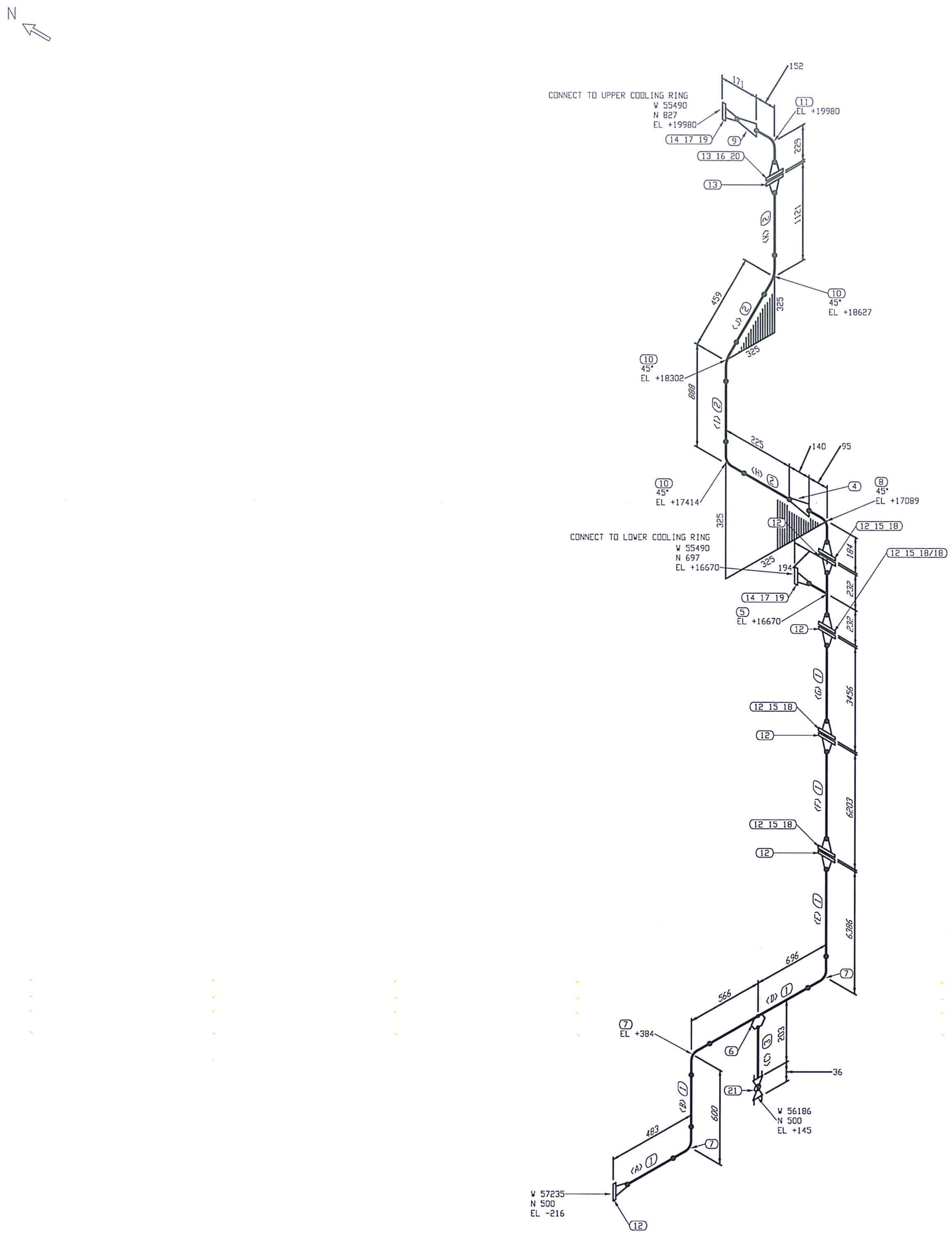
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04,
021-T-01/02/03/04, 030-T-01/02/03/04,
031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03,
& 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-2

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	2 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16483 MM	465.4
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2238 MM	36.0
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	10.2
15	6	GASKET, 150LB, 1/8' THK	4	1.8
16	4	GASKET, 150LB, 1/8' THK	1	0.5
17	3	GASKET, 150LB, 1/8' THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	5	2.3
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	1	0.5
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		703.7

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	165	6
<B>	142	6
<C>	100	1/2
<D>	805	6
<E>	6068	6
<F>	6025	6
<G>	3278	6
<H>	161	4
<I>	762	4
<J>	333	4
<K>	982	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

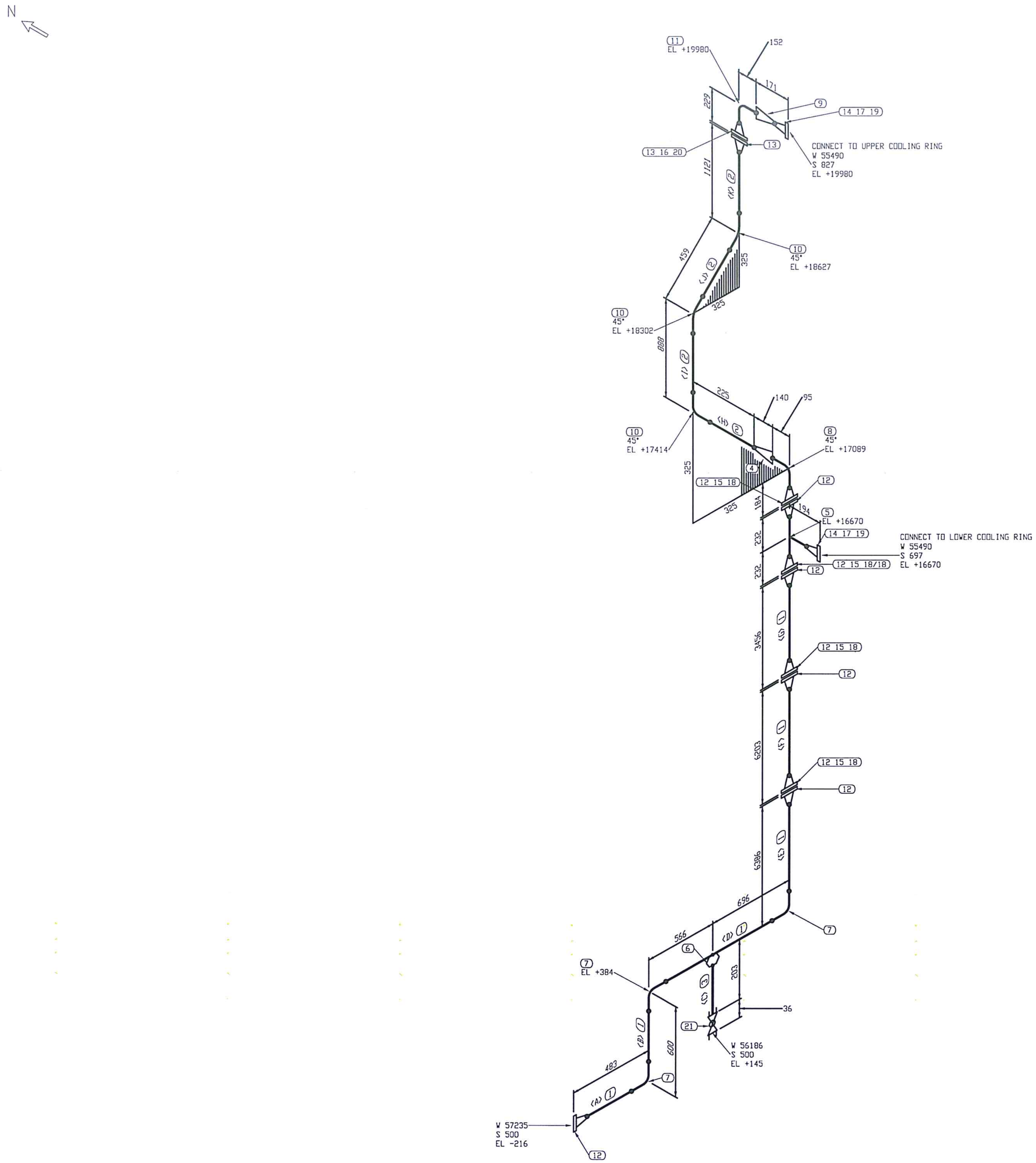
Enppi
ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET
THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO.
CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04, 021-T-01/02/03/04, 030-T-01/02/03/04, 031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03, & 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-3

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	3 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16483 MM	465.4
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2238 MM	36.0
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	10.2
15	6	GASKET, 150LB, 1/8' THK	4	1.8
16	4	GASKET, 150LB, 1/8' THK	1	0.5
17	3	GASKET, 150LB, 1/8' THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	5	2.3
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	1	0.5
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		703.7

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	165	6
<B>	142	6
<C>	100	1/2
<D>	805	6
<E>	6068	6
<F>	6025	6
<G>	3278	6
<H>	161	4
<I>	762	4
<J>	333	4
<K>	982	4

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

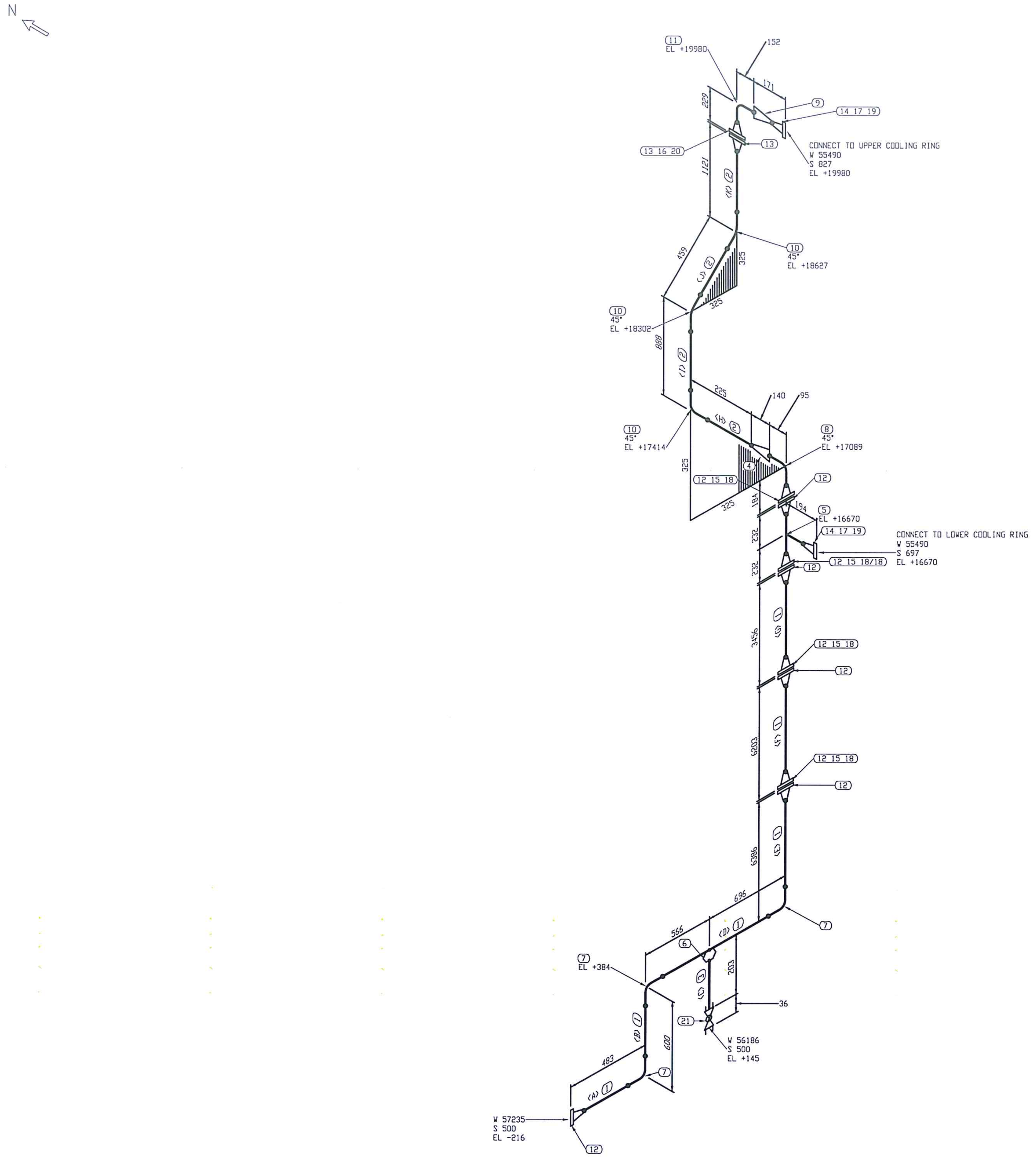
Enppi — ENGINEERING FOR THE PETROLEUM AND PROCESS INDUSTRIES

PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04, 021-T-01/02/03/04, 030-T-01/02/03/04, 031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03, & 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-4

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	4 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	6	PIPE, SMLS, SCH STD, ASTM A106 GR B	16483 MM	465.4
2	4	PIPE, SMLS, SCH STD, ASTM A106 GR B	2238 MM	36.0
3	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
4	6X4	RED CONC, SCH STD, ASTM A234 GR WPB	1	4.5
5	6X3	TEE RED, SCH STD, ASTM A234 GR WPB	1	12.5
6	6X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
7	6	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	30.5
8	6	45 ELL, SCH STD, ASTM A234 GR WPB	1	5.1
9	4X3	RED CONC, SCH STD, ASTM A234 GR WPB	1	1.9
10	4	45 ELL, SCH STD, ASTM A234 GR WPB	3	5.8
11	4	90 LR ELL, SCH STD, ASTM A234 GR WPB	1	3.9
12	6	FLG WELD NECK, 150LB, SCH STD, ASTM A105	9	106.2
13	4	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	15.0
14	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	2	10.2
15	6	GASKET, 150LB, 1/8' THK	4	1.8
16	4	GASKET, 150LB, 1/8' THK	1	0.5
17	3	GASKET, 150LB, 1/8' THK	2	0.9
18	3/4X102	(8) STUD BOLTS W/ NUTS, 102 LG, ASTM A193/194 GR B7/2H	5	2.3
19	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	2	0.9
20	5/8X95	(8) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	1	0.5
21	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		703.7

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	165	6
<B>	142	6
<C>	100	1/2
<D>	805	6
<E>	6068	6
<F>	6025	6
<G>	3278	6
<H>	161	4
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<K>	982	4

GENERAL NOTES

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REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
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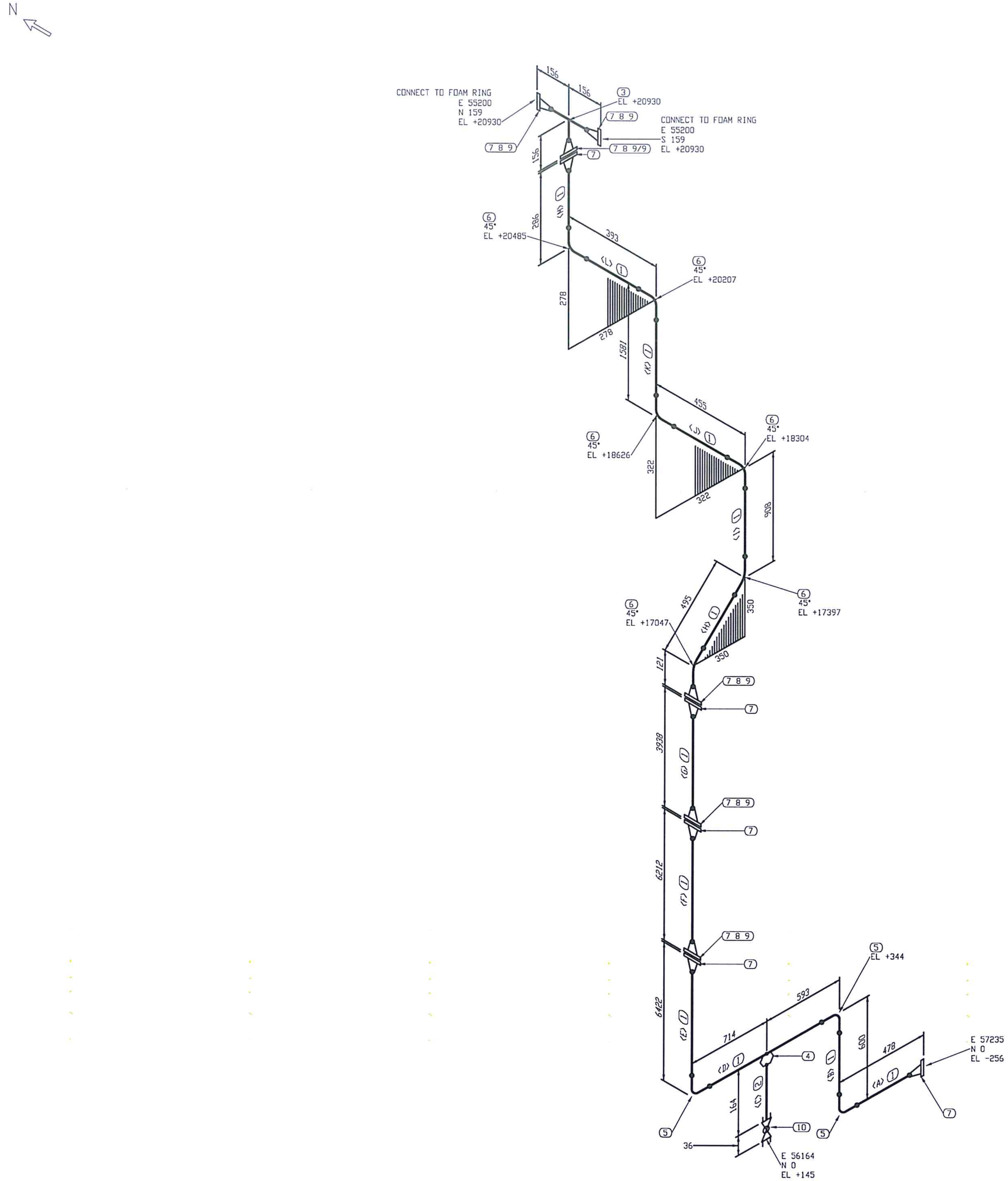
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PETROJET
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CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04,
021-T-01/02/03/04, 030-T-01/02/03/04,
031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03,
& 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Cooling Riser-4

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	4 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	21341 MM	240.5
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	11	56.1
8	3	GASKET, 150LB, 1/8' THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		318.6

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	293	3
<B>	372	3
<C>	100	1/2
<D>	1079	3
<E>	6238	3
<F>	6072	3
<G>	3799	3
<H>	393	3
<I>	806	3
<J>	354	3
<K>	1479	3
<L>	291	3
<M>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

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REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
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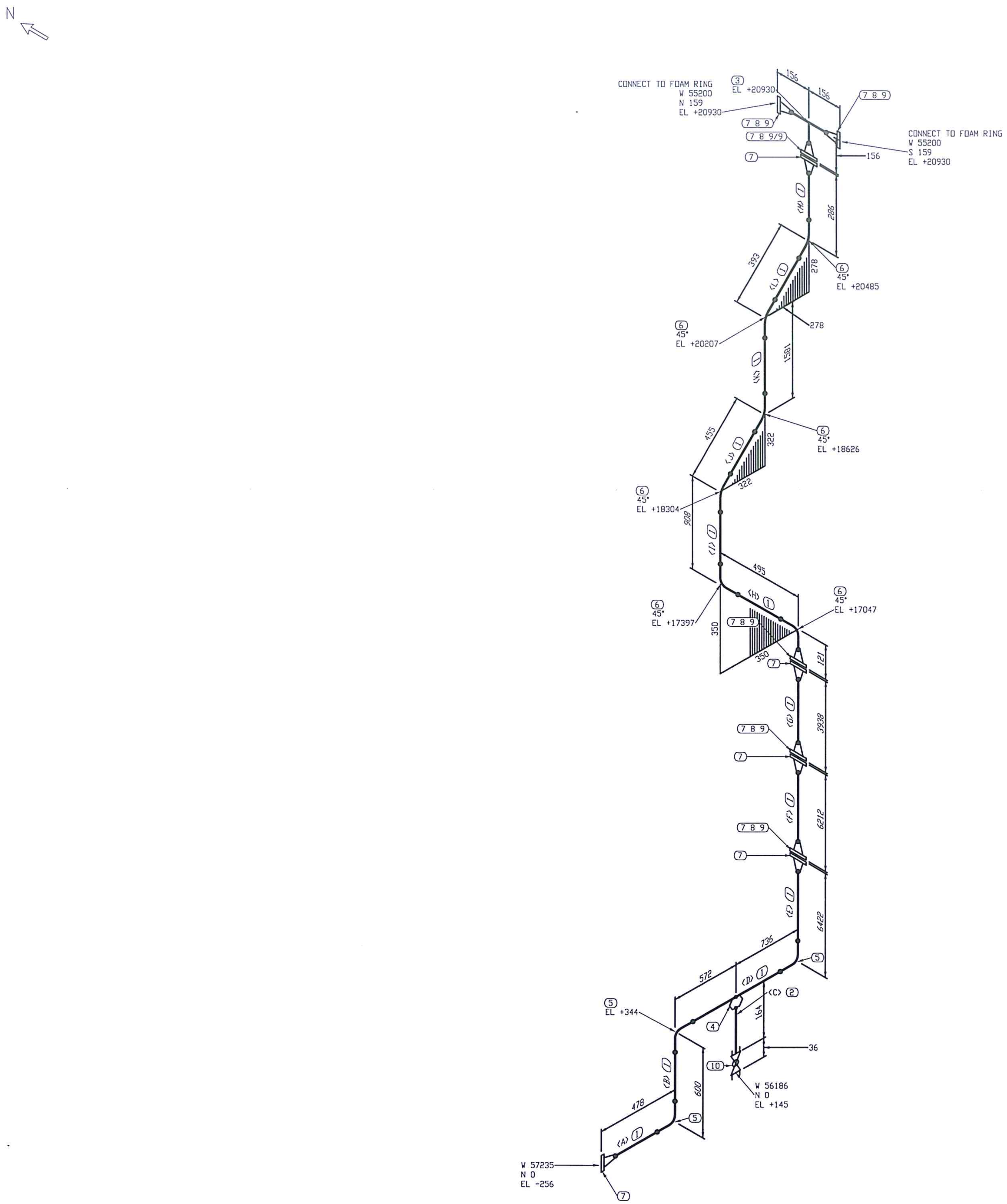
Enppi
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CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04, 021-T-01/02/03/04, 030-T-01/02/03/04, 031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03, & 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Foam Riser-1

DIMS .IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	5 / 6	0



BILL OF MATERIAL

MARK	SIZE	DESCRIPTION	QTY	WEIGHT
1	3	PIPE, SMLS, SCH STD, ASTM A106 GR B	21341 MM	240.5
2	1/2	PIPE, SMLS, SCH XS, ASTM A106 GR B	100 MM	0.2
3	3X3	TEE, SCH STD, ASTM A234 GR WPB	1	3.2
4	3X1/2	WELD-O-LET, BW, ASTM A105	1	0.1
5	3	90 LR ELL, SCH STD, ASTM A234 GR WPB	3	6.1
6	3	45 ELL, SCH STD, ASTM A234 GR WPB	6	6.6
7	3	FLG WELD NECK, 150LB, SCH STD, ASTM A105	11	56.1
8	3	GASKET, 150LB, 1/8' THK	6	2.7
9	5/8X95	(4) STUD BOLTS W/ NUTS, 95 LG, ASTM A193/194 GR B7/2H	7	3.2
10	1/2	BALL VALVE, THRD, 800LB	1	0.3
		TOTAL FABRICATION WEIGHT		318.6

CUT PIPE LENGTH

PIECE NUM	LENGTH (MM)	SIZE (INCH)
<A>	293	3
<B>	372	3
<C>	100	1/2
<D>	1079	3
<E>	6238	3
<F>	6072	3
<G>	3799	3
<H>	393	3
<I>	806	3
<J>	354	3
<K>	1479	3
<L>	291	3
<M>	165	3

GENERAL NOTES

1- ALL PIPES AND FITTINGS SHALL BE GALVANIZED AFTER FABRICATION.

2- CENTER OF TANK CONSIDERED TO BE THE ORIGIN (E 0 , N 0)

3- REFERENCE ELEVATION CONSIDERED TO BE TOP OF TANK BOTTOM PLATE.

REV	DATE	DESCRIPTION	PREP.	CKD.	APP.
0	01/10/2019	ISSUED FOR APPROVAL	A.YOUSSEF	M.HAWASH	M.A-RAZIK

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PETROJET — THE PETROLEUM PROJECTS AND TECHNICAL CONSULTATIONS CO. CAIRO A.R.E

PROJECT	CRUDE OIL TANK FARM
AT	RAS SHUKIER, RAS BADRAN MOD. 1/2, AGROOD MOD. 1/2, TEBEEN, FANARA & ALEX.
CLIENT	EGPC

CRUDE OIL STORAGE TANK
TANK I.D. 010-T-01/02/03/04, 020-T-01/02/03/04,
021-T-01/02/03/04, 030-T-01/02/03/04,
031-T-01/02/03/04, 040-T-01/02/03, 050-T-01/02/03,
& 060-T-01/02/03
Water Spray/Foam System Piping Isometric Drawing
Foam Riser-2

DIMS :IN mm	DRAWING NO.:	SHEET No.	REVISION
FORMAT :A1	2019/CRUDE OIL-ALL TANK-30-D-3-FF-07	6 / 6	0

4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM

ENGINEERING PROJECT NUMBER – 855201096

REGION JOB NUMBER – 86585790

03/24/20

REVISION LEGEND
ALPHABETIC: LETTERS A,B,C,...ETC INDICATE THE DRAWING(S) ARE ISSUED TO CUSTOMER FOR APPROVAL
NUMERIC: NUMBERS 0,1,2,...ETC INDICATE THE DRAWING(S) ARE APPROVED & RELEASED FOR FABRICATION / CONSTRUCTION
HOLD: INDICATES THE DRAWING(S) ARE ON HOLD

PETROJET

EGYPT

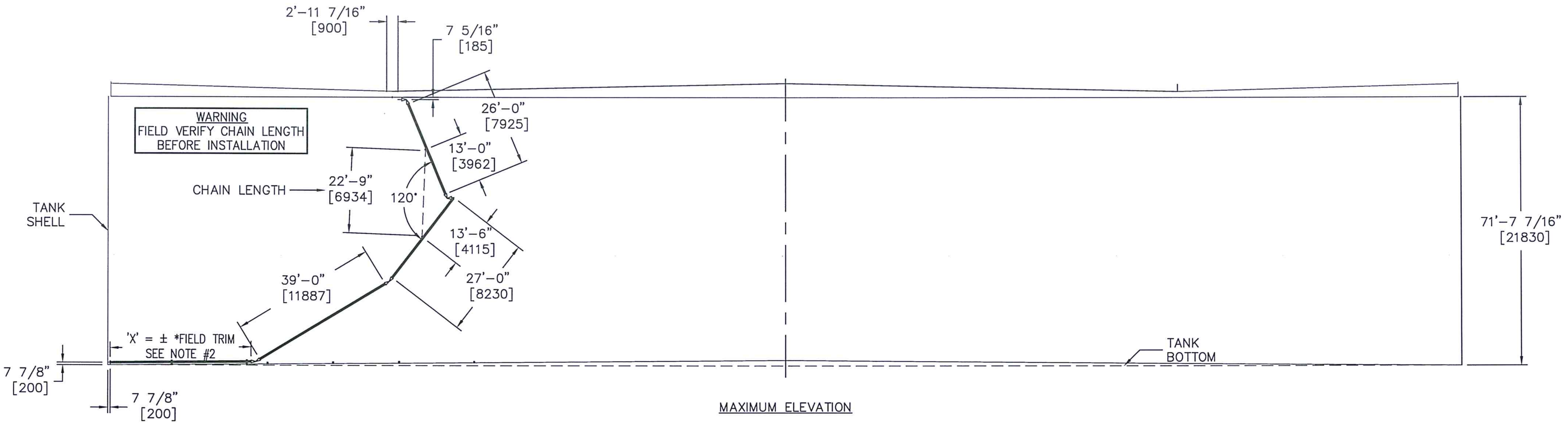
TANK NUMBER:

110m DIA X 21.83m TALL

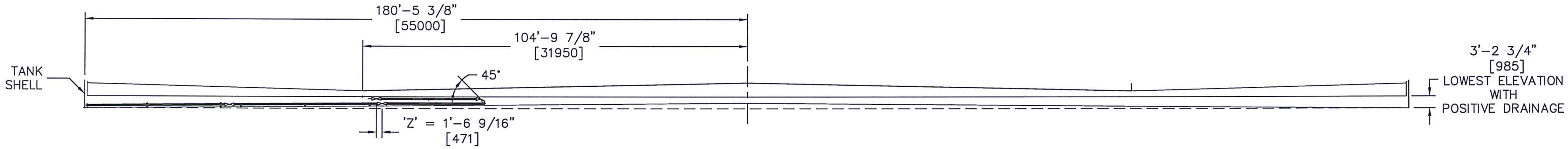
DRAWING LIST

	DWG. NO.	DRAWING DESCRIPTION	REV.
0.	855201096–200	COVER PAGE (DRAWING LIST)	B
1.	855201096–201	4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM ELEVATION VIEW	A
2.	855201096–202	4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM PLAN VIEW	A
3.	855201096–203	4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM LAYOUT	B
4.	855201096–204	4" LOW PROFILE PIVOT MASTER ASSEMBLY DETAILS FOR ROOF DRAIN SYSTEM	A

DRAWING NO.	REV
855201096–200	B



MAXIMUM ELEVATION



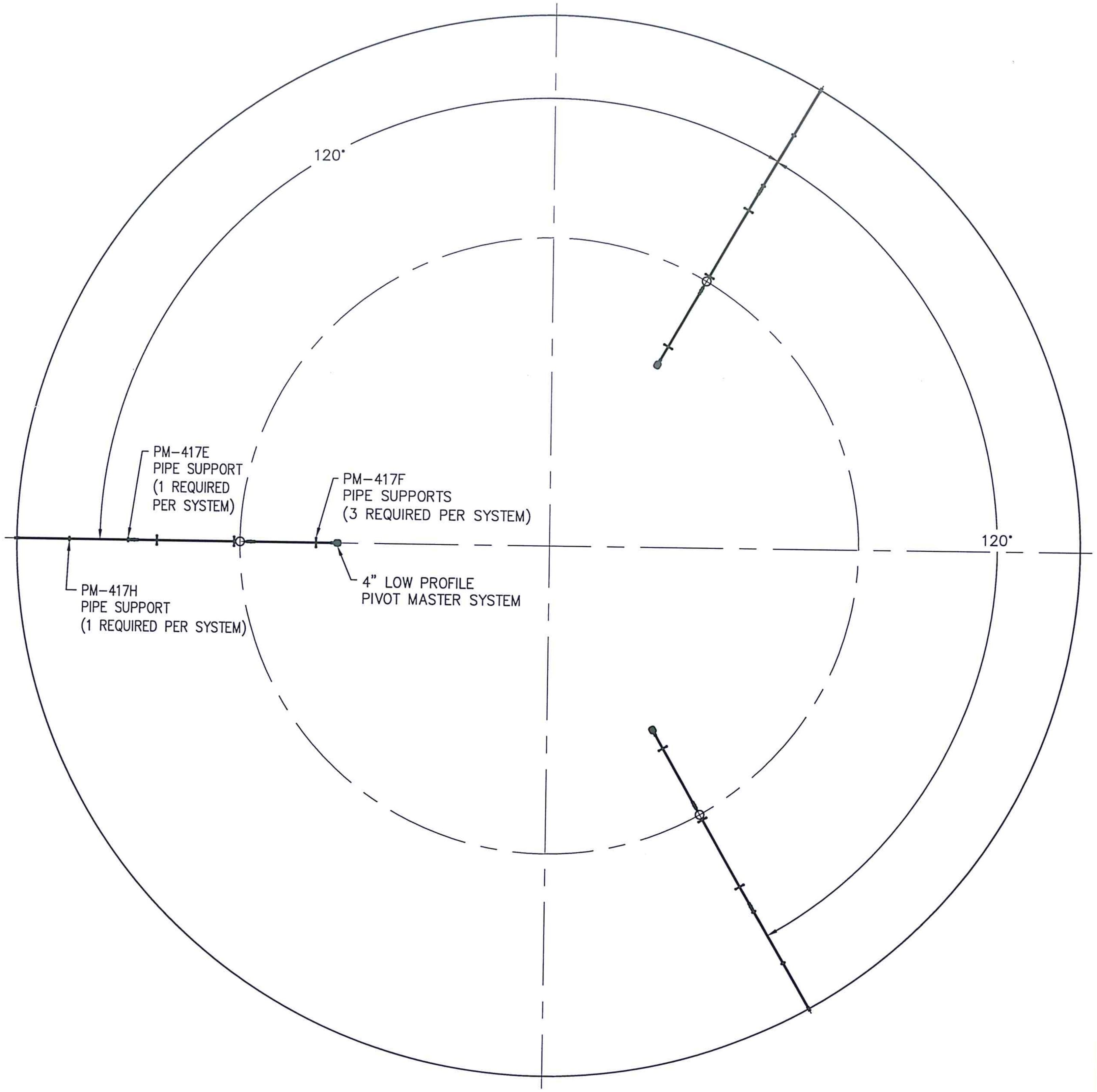
LOWEST ELEVATION WITH POSITIVE DRAINAGE

NOTES:
1. THIS DRAWING REPRESENTS THE POTENTIAL OPERATING RANGE FOR THE PIVOT MASTER ROOF DRAIN SYSTEM AND DOES NOT REFLECT A LOW LEG SETTING OR MAXIMUM PRODUCT HEIGHT IN EITHER CONFIGURATION.
2. SEE FIELD INSTRUCTIONS AND DWG 855201096-204 BEFORE INSTALLATION.
3. ONE SYSTEM SHOWN FOR CLARITY, THREE SYSTEMS REQUIRED.

	REVISION	DWN	CHKR

REGION JOB NO. 86585790	DRAWN BY MV	CHECKED BY ECD	
ENG. JOB NO. 855201096	DATE 03/02/20	DATE 03/02/20	
TANK NO.	TITLE 4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM ELEVATION VIEW		
TANK SIZE 110m DIA. X 21.83m TALL			
LOCATION EGYPT	CUSTOMER PETROJET	DRAWING NO. 855201096-201	REV. A

NOTES:
1. SEE DRAWING 855201096-203 FOR SYSTEM LAYOUT.
2. SEE DRAWING 855201096-204 FOR ASSEMBLY DETAILS.



REVISION	DWN	CHKR

REGION JOB NO.	86585790
ENG. JOB NO.	855201096
TANK NO.	
TANK SIZE	110m DIA. X 21.83m TALL
LOCATION	EGYPT
DRAWN BY	MV
DATE	03/02/20
CHECKED BY	ECD
DATE	03/02/20
TITLE	4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM PLAN VIEW
CUSTOMER	PETROJET
DRAWING NO.	855201096-202
REV.	A

NOTES:

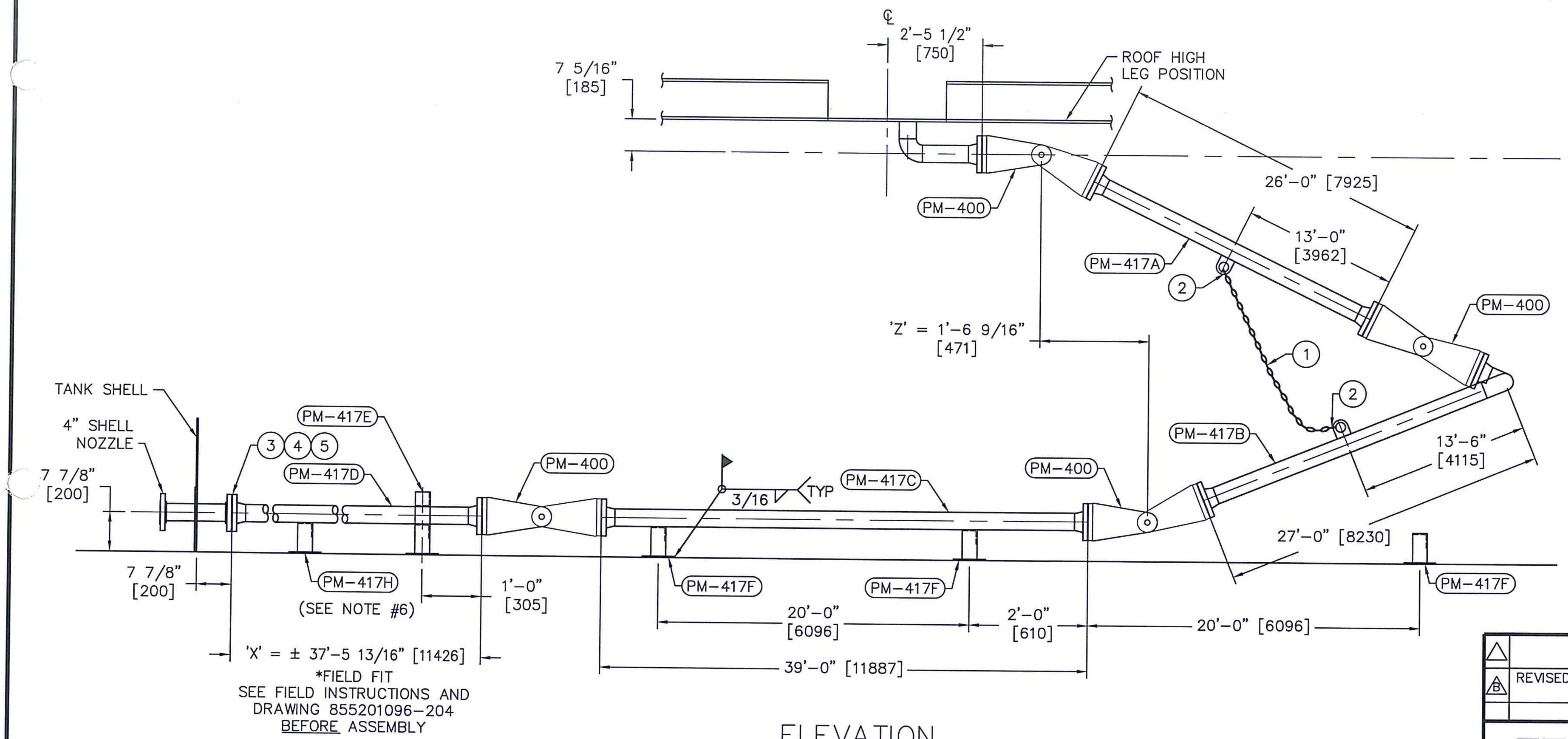
1. SEE DRAWING 855201096-204 FOR ASSEMBLY DETAILS, WELDING SYMBOLS, AND PURCHASE REQUIREMENTS.
2. WEIGHT OF PIVOT MASTER = 100 LBS / 45 KG.
3. TORQUE ALL BOLTS TO 120 ft-lbs.
4. HYDROTEST ENTIRE SYSTEM AFTER INSTALLATION TO 50 PSI PER API 650.
5. FIELD ASSEMBLE PIPE SUPPORTS PM-417E AND PM-417F TO MAINTAIN A DOWNWARD SLOPE OF 3/4" [19] IN 10'-0" [3048] TO TANK SHELL.
6. PLACE SUPPORT A MINIMUM OF 10'-0" [3048] FROM INSIDE OF SHELL.
7. TANK LOW LEG POSITION = 3'-3 3/8" [1000].
8. TANK BOTTOM SLOPE = 1'-6 1/8" [458] UP.
9. TANK MINIMUM LOW LEG POSITION WITH POSITIVE DRAINAGE = 3'-2 3/4" [985].

WARNING
DO NOT CONDUCT WELDING, BURNING, OR SANDBLASTING OPERATIONS ABOVE OR NEAR THE PIVOT MASTER JOINT

BILL OF MATERIALS

SHIPPING PART NUMBER	SUB PART NUMBER	PM	QTY.	DESCRIPTION	MATERIAL	WT.
PM-417A			1	4" PIPE ASSEMBLY, 26'-0" [7925]	NOTE 1	
PM-417B			1	4" PIPE ASSEMBLY, 27'-0" [8230]	NOTE 1	
PM-417C			1	4" PIPE ASSEMBLY, 39'-0" [11887]	NOTE 1	
PM-417D			1	4" PIPE ASSEMBLY, *FABRICATE PER FIELD INSTRUCTIONS	NOTE 1	
PM-417E			1	PIPE SUPPORT ASSEMBLY	NOTE 1	
PM-417F			3	PIPE SUPPORT ASSEMBLY	NOTE 1	
PM-417H			1	PIPE SUPPORT ASSEMBLY	NOTE 1	
PM-400			4	4" PIVOT MASTER ASSEMBLY (GALV. SIDE PLATES) W/ (2) CNA GARLOCK BLUEGARD 3000 GASKETS AND A193 & A194 BOLTING HARDWARE		
–	1		1	3/8" PROOF COIL CHAIN, 22'-9" [6934]	C.S.	
–	2		2	3/8" STANDARD SPLIT LINK	C.S.	
–	3		1	4"-150# GARLOCK BLUEGARD 3000 GASKET	CNA	
–	4		8	STUD. 5/8"-11 UNC x 4"	B8 Gr	
–	5		16	HEX NUT, 5/8"-11 UNC	B8 Gr	

QUANTITY SHOWN FOR ONE SYSTEM. THREE SYSTEMS REQUIRED.



ELEVATION

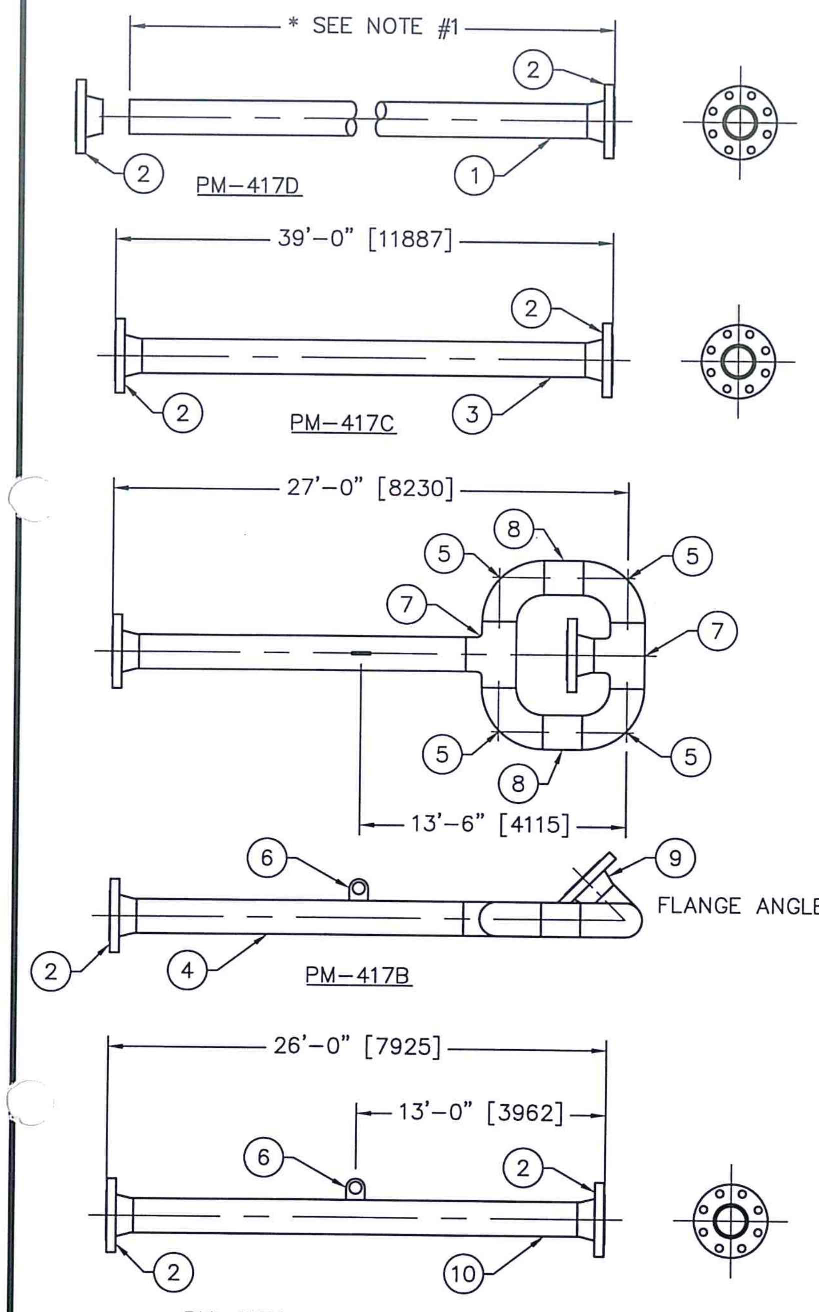
IMPORTANT
FIELD VERIFY ALL DIMENSIONS BEFORE ASSEMBLY

REV.	REVISION	DWN	CHKR
B	REVISED HARDWARE SPEC	MV 03/24/20	ECD 03/24/20

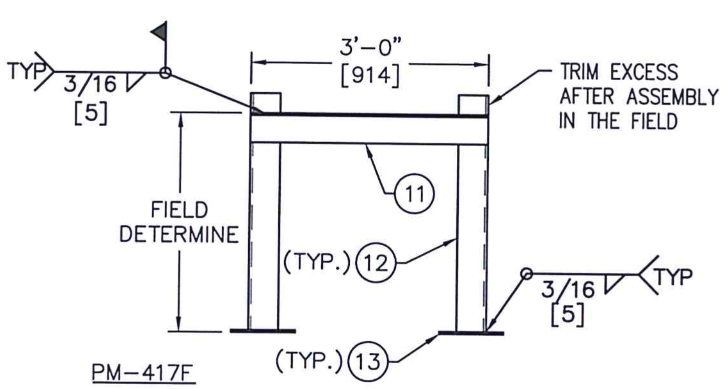
REGION JOB NO.	86585790	DRAWN BY: MV	CHECKED BY: ECD
ENG. JOB NO.	855201096	DATE: 03/02/20	DATE: 03/02/20
TANK NO.		TITLE: 4" LOW PROFILE PIVOT MASTER ROOF DRAIN SYSTEM LAYOUT	
TANK SIZE	110m DIA. X 21.83m TALL		
LOCATION	EGYPT	CUSTOMER: PETROJET	DRAWING NO.: 855201096-203 REV. B

NOTES:

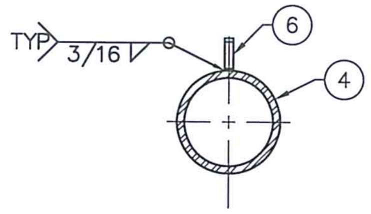
1. FABRICATE PIPE TO 38'-6" [11735] THEN WELD FLANGE (ITEM 2) TO ONE END AS SHOWN. AT THE WORK SITE, CUT PIPE TO FINAL LENGTH PER FIELD INSTRUCTIONS. THEN WELD SECOND FLANGE (ITEM 2) ON END.
2. FINAL WEIGHT OF SYSTEM WILL BE DEPENDENT UPON LENGTH OF PM-417D.
3. WELD ALL FLANGES USING TWO HOLE ALIGNMENT.



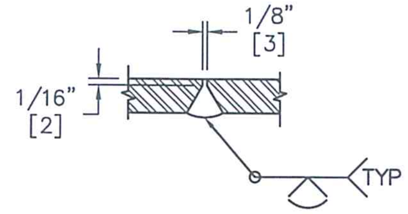
PM-417A



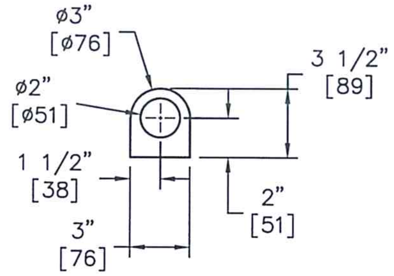
PM-417F



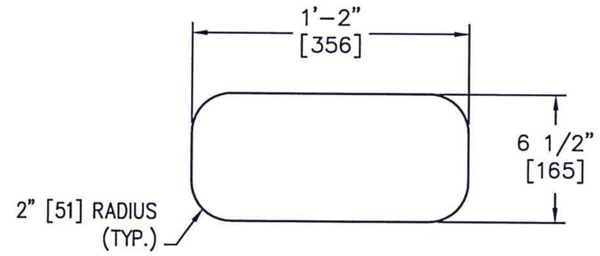
TYPICAL CHAIN ANCHOR ATTACHMENT



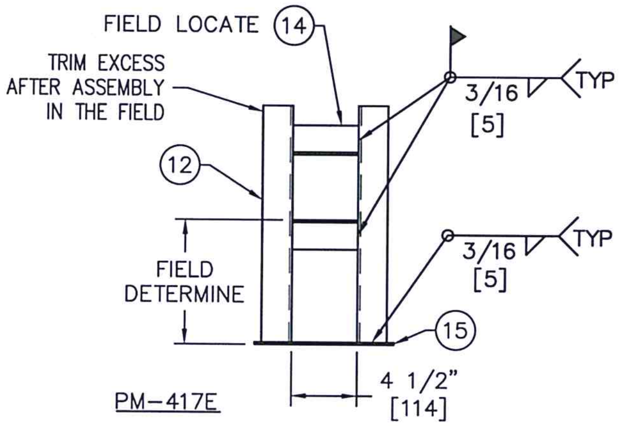
TYPICAL PIPE WELD



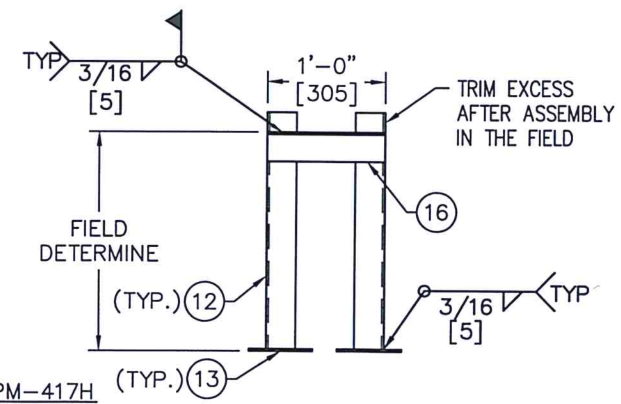
CHAIN ANCHOR 6



SUPPORT PAD 15



PM-417E



PM-417H

BILL OF MATERIALS						
SHIPPING PART NUMBER	SUB PART NUMBER	PM	QTY.	DESCRIPTION	MATERIAL	WT.
PM-417D			1	PIPE ASSEMBLY (SHIP PIPE IN SECTIONS)		
–	1	1	1	PIPE, 4" SCH 40 (*SEE NOTE #1)	A53B	435.0
–	2	2	2	FLANGE, A.N.S.I. R.F.W.N. 4"–150#	A105	33.0
PM-417C			1	PIPE ASSEMBLY		
–	1	3	1	PIPE, 4" x 38'–6" [11735] LG SCH 40	A53B	416.0
–	2	2	2	FLANGE, A.N.S.I. R.F.W.N. 4"–150#	A105	33.0
PM-417B			1	PIPE ASSEMBLY		
–	1	4	1	PIPE, 4" x 24'–4 7/8" [7439] LG SCH 40	A53B	264.0
–	2	2	1	FLANGE, A.N.S.I. R.F.W.N. 4"–150#	A105	17.0
–	3	5	4	WELDELL, STD. WT. L.R. 4"–90°	A234	36.0
–	4	6	1	PLATE, 1/2" x 3" x 3 1/2" x SK [13 x 75 x 89 x SK]	A36	1.0
–	5	7	2	TEE, STD. WT. STRAIGHT 4"	A234	24.0
–	6	8	2	PIPE, 4" x 1'–0" [305] LG SCH 40	A53B	22.0
–	7	9	1	FLANGE, A.N.S.I. R.F.W.N. 4"–150#	A105	17.0
PM-417A			1	PIPE ASSEMBLY		
–	1	10	1	PIPE, 4" x 25'–6" [7772] LG SCH 40	A53B	276.0
–	2	2	2	FLANGE, A.N.S.I. R.F.W.N. 4"–150#	A105	33.0
–	3	6	1	PLATE, 1/2" x 3" x 3 1/2" x SK [13 x 75 x 89 x SK]	A36	1.0
PM-417F			3	PIPE SUPPORT ASSEMBLY (SHIP DISASSEMBLED)		
–	1	11	3	ANGLE, 1/4" x 3" x 3" x 3'–0" LG [6 x 75 x 75 x 914 LG]	A36	44.0
–	2	12	6	ANGLE, 1/4" x 3" x 3" x 2'–0" LG [6 x 75 x 75 x 610 LG]	A36	59.0
–	3	13	6	PLATE, 1/4" x 6 1/2" O.D. [6 x 165 O.D.]	A36	14.0
PM-417E			1	PIPE SUPPORT ASSEMBLY (SHIP DISASSEMBLED)		
–	1	14	2	ANGLE, 1/4" x 3" x 3" x 4 1/2" LG [6 x 75 x 75 x 114 LG]	A36	4.0
–	2	12	2	ANGLE, 1/4" x 3" x 3" x 2'–0" LG [6 x 75 x 75 x 610 LG]	A36	20.0
–	3	15	1	PLATE, 1/4" x 6 1/2" x 1'–2" x SK [6 x 165 x 356 x SK]	A36	6.0
PM-417H			1	PIPE SUPPORT ASSEMBLY (SHIP DISASSEMBLED)		
–	1	16	1	ANGLE, 1/4" x 3" x 3" x 1'–0" LG [6 x 75 x 75 x 305 LG]	A36	5.0
–	2	12	2	ANGLE, 1/4" x 3" x 3" x 2'–0" LG [6 x 75 x 75 x 610 LG]	A36	20.0
–	3	13	2	PLATE, 1/4" x 6 1/2" O.D. [6 x 165 O.D.]	A36	5.0

TOTAL WEIGHT = 1785.0 LBS / 810 KG

QUANTITY SHOWN FOR ONE SYSTEM. THREE SYSTEMS REQUIRED.

		DWN	CHKR
△			
△			
	REVISION	DWN	CHKR

REGION JOB NO. 86585790	DRAWN BY MV	CHECKED BY ECD	
ENG. JOB NO. 855201096	DATE 03/02/20	DATE 03/02/20	
TANK NO.	TITLE 4" LOW PROFILE PIVOT MASTER ASSEMBLY DETAILS FOR ROOF DRAIN SYSTEM		
TANK SIZE 110m DIA. X 21.83m TALL			
LOCATION EGYPT	CUSTOMER PETROJET	DRAWING NO. 855201096-204	REV. A